Biological and Oceanographic Data from the Harmful Algae Monitoring Program Associated with Salmon Farm Sites on the West Coast of Canada in 2001

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2004

BIOLOGICAL AND OCEANOGRAPHIC DATA FROM THE HARMFUL ALGAE MONITORING PROGRAM ASSOCIATED WITH SALMON FARM SITES ON THE WEST COAST OF CANADA IN 2001

by

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TABLE OF CONTENTS

ABSTRACT iv

RÉSUMÉ iv

ACKNOWLEDGEMENTS v

INTRODUCTION 1

MATERIALS AND METHODS
- Plankton sample collection 2
- Plankton sample analysis 2
- Counting technique 3
- Environmental monitoring 3
- Nutrient sample collection and analysis 3

RESULTS FROM SAMPLES COLLECTED DURING 2001
- Biological parameters at specific sites; list of tables 3
- Harmful or potentially harmful phytoplankton species at specific sites; list of figures 6
- Environmental parameters at specific sites; list of figures 7
- Water nutrient parameters at specific sites; list of figures 7

ABSTRACT

Haigh, N., Whyte, J.N.C., and Sherry, K.L. 2004. Biological and oceanographic data from the harmful algae monitoring program associated with salmon farm sites on the west coast of Canada in 2001. Can. Data Rep. Fish. Aquat. Sci. 1156: 346 p.

This report presents the results of the third year of the Harmful Algae Monitoring Program, which was initiated in 1999 by Fisheries and Oceans Canada in collaboration with the salmon aquaculture industry in British Columbia. Sampling done weekly at farm sites provided data on: phytoplankton species, including those harmful or potentially harmful to finfish; phytoplankton biomass and dominant groups; nutrient (nitrate, phosphate, silicate, and ammonium) levels; and environmental parameters such as temperature, salinity, and dissolved oxygen. In 2001 the sampling period was from March 1st to the end of November, and 27 sites around Vancouver Island were monitored.

RÉSUMÉ

Haigh, N., Whyte, J.N.C., and Sherry, K.L. 2004. Biological and oceanographic data from the harmful algae monitoring program associated with salmon farm sites on the west coast of Canada in 2001. Can. Data Rep. Fish. Aquat. Sci. 1156: 346 p.

Ce rapport présente les résultats de la troisième année du programme de surveillance des algues toxiques, lequel a été initié en 1999 par Pêches et Océans Canada en collaboration avec l'industrie aquicole de la Colombie Britannique. Un échantillonnage hebdomadaire aux sites de mariculture a fourni des données sur la composition des espèces phytoplanctoniques, incluant les algues toxiques ou potentiellement nocives aux poissons, ainsi que sur la biomasse phytoplanctonique et les groupes dominants, les niveaux des sels nutritifs (nitrate, phosphate, silicate, ammonium), et les paramètres environnementaux tels la température, salinité, et l'oxygène dissous. En 2001, la période d'échantillonnage était de mars à la fin novembre, et 27 sites autour de l'île de Vancouver ont été échantillonnés.

ACKNOWLEDGEMENTS

The Harmful Algae Monitoring Program was funded by the salmon aquaculture industry in British Columbia. In 2001 companies contributing to the program were Stolt Sea Farm, Omega Salmon Group, Pacific National Aquaculture, Marine Harvest Canada, Heritage Aquaculture, Creative Salmon, and Target Marine Products. We would like to acknowledge this support, and the efforts of company personnel who helped to keep the program running. We would also like to thank the farm personnel who carried out the sampling at the monitoring sites and who communicated with us in the instances of harmful algal blooms at salmon aquaculture operations around the coast of British Columbia.

INTRODUCTION

The Harmful Algae Monitoring Program (HAMP) was started in the summer of 1999 with the motivation of Terry Nielsen and Darrell Volker of Pacific Aqua Salmon Farmers (PASF), in co-operation with Dr J. N. C. (Ian) Whyte of Fisheries and Oceans Canada and Nicky Haigh. In the third year of the program, 2001, eight farm companies took part in the program, with 27 sites around Vancouver Island sampled weekly from the beginning of March to the end of November. Figure 1 shows the HAMP sampling sites for 2001.

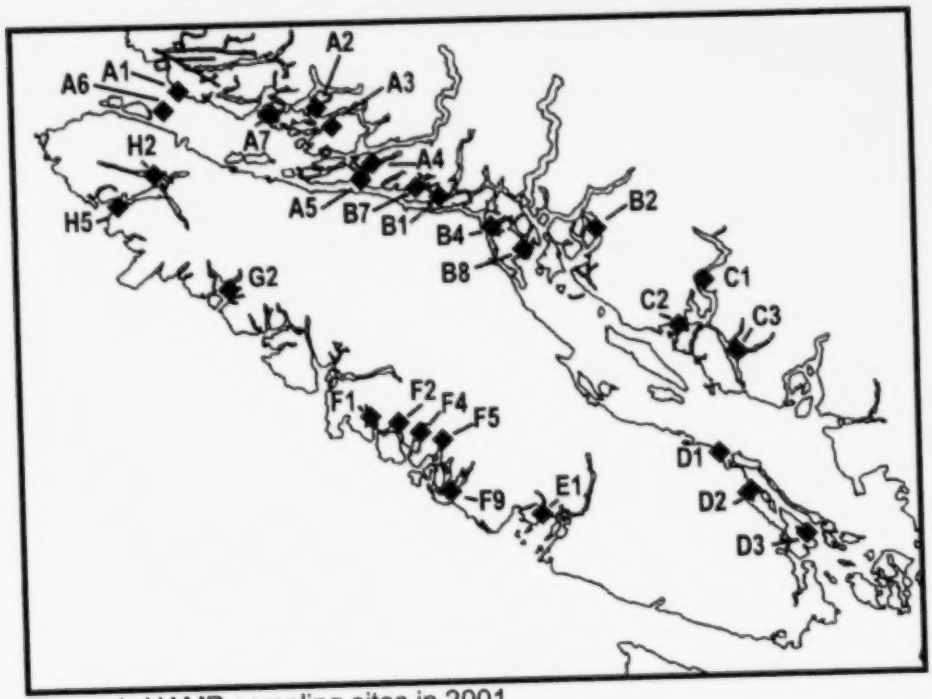

Figure 1: HAMP sampling sites in 2001.

A1	Shelter Bay	B4	Brougham Point	E1	Jane Bay
A2	Simoom Sound	B7	Althorp Point	F1	Pretty Girl Cove
A3	Viner Sound	B8	Conville Bay	F2	Bacchante Bay
A4	Warren Islands	C1	Glacial Creek	F4	Gibson Cove
A5	Boughy Bay	C2	Power Bay	F5	Bedwell Sound
A6	Shelter Pass	C3	Kunechin Point	F9	Indian Bay
A7	Greenway Sound	D1	Departure Bay	G2	Charlie's Place
B1	Chancellor Channel	D2	Coffin Point	H2	Thorpe Point
B2	Homfray Creek	D3	Saltspring Island	H5	Koskimo Bay

This report summarises in tables, figures and graphs the data for the HAMP samples collected in 2001. Tables present the results of sample analyses for phytoplankton species, dominant species name and counts, estimated total phytoplankton biomass, and percentage of sample biomass in five constituent

groups: diatoms, dinoflagellates, raphidophytes, other flagellates, and microzooplankton. The concentration of algal species that are harmful or potentially harmful to fish are illustrated in figures for each site monitored. For sites where environmental parameters were provided by the farm companies, graphs of water temperature, salinity, dissolved oxygen (DO), and sigma-T are presented collectively as a figure for each site. Similarly, water nutrient parameters as concentrations of silicate, phosphate, ammonium and nitrate are graphically illustrated for sites where samples were collected in 2001 (Boughy Bay, Homfray Creek, Glacial Creek, Kunechin Point, Charlie's Place, and Koskimo Bay).

MATERIALS AND METHODS

PLANKTON SAMPLE COLLECTION

Samples for analyses were collected weekly by farm site personnel. Discrete 100 mL water samples were collected, usually using home-made sampling bottles, from 1m, 5m, and 10 metre depths, and were preserved with Lugol's iodine solution. Samples were then forwarded by courier to the Pacific Biological Station (PBS) in Nanaimo.

PLANKTON SAMPLE ANALYSIS

Plankton sample were analysed typically on the day water samples were received. Samples were resuspended by mixing gently, and a 1 mL aliquot was pipetted into a plastic Sedgewick Rafter cell and allowed to settle for at least five minutes. The whole rafter slide was scanned using a Leitz Wetzlas Dialux microscope: the first 20% of the slide was examined at 100X magnification, and the remainder at 40X, shifting up to 100X when necessary to aid identification of species. All species were identified to highest practicable level, and registered on data sheets. Non-harmful or difficult to differentiate species were sometimes grouped into genus or type (e.g. *Thalassiosira* species as diatoms were grouped together, and gymnodinioid type dinoflagellates were grouped together). In the data sheets each species in the genus or group were given a mark in the corresponding box. If harmful species were present in the sample a count was made of those species (see "Counting Technique"). The dominant species or group in each sample was identified and counted. Total biomass in the sample was estimated on a scale of 1(very low) to 5 (very high). Proportion of total biomass in each of five groups (diatoms, dinoflagellates, raphidophytes, other flagellates, and microzooplankton) was approximated. Analysis of each sample usually took 20-40 minutes.

COUNTING TECHNIQUE

Counts of algae were either "approximate counts" (indicated by a tilde before the number, e.g. ~20) or "more accurate counts". For more accurate counts at least 100 cells of the species or group in question were counted. Plankton tends to settle non-randomly in Sedgewick Rafter cells, with greater accumulations around the edges than in the middle of the slide, so more accurate counts were usually done across the middle section of the slide, including a balance of edge and middle squares. Enumeration of harmful algal species often produced approximate counts, as levels were generally less than 100 cells/mL except during blooms, and analysis time constraints usually made it impracticable to count the alga in more than a few rows of the slides.

ENVIRONMENTAL MONITORING

Data sheets for environmental monitoring were provided to the HAMP participant companies. These sheets were to be completed with water temperature, salinity, dissolved oxygen, and other environmental data for the sampling depths at the time and place HAMP samples were taken. This data was then to be sent to PBS for compilation and archiving. This data collection was done to varying degrees by different farm companies and at different sampling sites.

NUTRIENT SAMPLE COLLECTION AND ANALYSIS

Certain HAMP sites were selected for nutrient sampling based on siting and company participation; this sampling was done concurrent with that for phytoplankton analysis. Particulate matter was filtered out using Fisherbrand G4 microfibre filters (1.2 µm particle retention size) in Swinnex holders attached to 60 mL plastic syringes; filtrate was frozen in 30 mL acid-washed HDPE Nalgene bottles for later analysis. At the end of the sampling season, all collected and preserved samples were analysed for nitrate (including nitrite), ammonium, phosphate, and silicate concentrations using a Technicon AutoAnalyzer.

RESULTS FROM SAMPLES COLLECTED DURING 2001

BIOLOGICAL PARAMETERS AT SPECIFIC SITES; LIST OF TABLES

Table 1. Diatoms in Shelter Bay samples, ... 8
Table 2. Dinoflagellates in Shelter Bay samples..... 11
Table 3. Other flagellates, microzooplankton, dominant species, % constituent, and total biomass in Shelter Bay samples..... 14
Table 4. Diatoms in Shelter Pass samples, ... 17
Table 5. Dinoflagellates in Shelter Pass samples..... 21
Table 6. Other flagellates, microzooplankton, dominant species, % constituent, and total biomass in Shelter Pass samples..... 25

Table 7. Diatoms in Greenway Sound samples, ... 29
Table 8. Dinoflagellates in Greenway Sound samples..... 32
Table 9. Other flagellates, microzooplankton, dominant species, % constituent, and total biomass in Greenway Sound samples.....35
Table 10. Diatoms in Simoom Sound samples,.....38
Table 11. Dinoflagellates in Simoom Sound samples..... 41
Table 12. Other flagellates, microzooplankton, dominant species, % constituent, and total biomass in Simoom Sound samples..... 44
Table 13. Diatoms in Viner Sound samples.....47
Table 14. Dinoflagellates in Viner Sound samples..... 51
Table 15. Other flagellates, microzooplankton, dominant species, % constituent, and total biomass in Viner Sound samples..... 55
Table 16. Diatoms in Warren Islands samples..... 59
Table 17. Dinoflagellates in Warren Islands samples..... 62
Table 18. Other flagellates, microzooplankton, dominant species, % constituent, and total biomass in Warren Islands samples.....65
Table 19. Diatoms in Boughy Bay samples..... 68
Table 20. Dinoflagellates in Boughy Bay samples.....71
Table 21. Other flagellates, microzooplankton, dominant species, % constituent, and total biomass in Boughy Bay samples.....74
Table 22. Diatoms in Althorp Point samples.....77
Table 23. Dinoflagellates in Althorp Point samples..... 80
Table 24. Other flagellates, microzooplankton, dominant species, % constituent, and total biomass in Althorp Point samples.....83
Table 25. Diatoms in Chancellor Channel samples..... 86
Table 26. Dinoflagellates in Chancellor Channel samples.....89
Table 27. Other flagellates, microzooplankton, dominant species, % constituent, and total biomass in Chancellor Channel samples.... 92
Table 28. Diatoms in Brougham Point samples..... 95
Table 29. Dinoflagellates in Brougham Point samples..... 99
Table 30 Other flagellates, microzooplankton, dominant species, % constituent, and total biomass in Brougham Point samples.....103
Table 31. Diatoms in Homfray Creek samples..... ... 107
Table 32. Dinoflagellates in Homfray Creek samples..... 110
Table 33. Other flagellates, microzooplankton, dominant species, % constituent, and total biomass in Homfray Creek samples.....113
Table 34. Diatoms in Conville Bay samples.....116
Table 35. Dinoflagellates in Conville Bay samples..... 119
Table 36. Other flagellates, microzooplankton, dominant species, % constituent, and total biomass in Conville Bay samples..... 122
Table 37. Diatoms in Glacial Creek samples.....125
Table 38. Dinoflagellates in Glacial Creek samples..... 130
Table 39. Other flagellates, microzooplankton, dominant species, % constituent, and total biomass in Glacial Creek samples..... 135
Table 40. Diatoms in Power Bay samples..... 140
Table 41. Dinoflagellates in Power Bay samples..... 144

Table 42. Other flagellates, microzooplankton, dominant species, % constituent, and total biomass in Power Bay samples..... 148
Table 43. Diatoms in Kunechin Point samples..... 152
Table 44. Dinoflagellates in Kunechin Point samples..... 156
Table 45. Other flagellates, microzooplankton, dominant species, % constituent, and total biomass in Kunechin Point samples..... 160
Table 46. Diatoms in Departure Bay samples..... 164
Table 47. Dinoflagellates in Departure Bay samples..... 167
Table 48. Other flagellates, microzooplankton, dominant species, % constituent, and total biomass in Departure Bay samples..... 170
Table 49. Diatoms in Coffin Point samples..... 173
Table 50. Dinoflagellates in Coffin Point samples..... 175
Table 51. Other flagellates, microzooplankton, dominant species, % constituent, and total biomass in Coffin Point samples..... 177
Table 52. Diatoms in Saltspring Island samples..... 179
Table 53. Dinoflagellates in Saltspring Island samples..... 182
Table 54. Other flagellates, microzooplankton, dominant species, % constituent, and total biomass in Saltspring Island samples..... 185
Table 55. Diatoms in Jane Bay samples..... 188
Table 56. Dinoflagellates in Jane Bay site samples..... 191
Table 57. Other flagellates, microzooplankton, dominant species, % constituent, and total biomass in Jane Bay site samples..... 194
Table 58. Diatoms in Pretty Girl Cove samples..... 197
Table 59. Dinoflagellates in Pretty Girl Cove samples..... 200
Table 60. Other flagellates, microzooplankton, dominant species, % constituent, and total biomass in Pretty Girl Cove samples..... 203
Table 61. Diatoms in Bacchante Bay samples..... 206
Table 62. Dinoflagellates in Bacchante Bay samples..... 209
Table 63. Other flagellates, microzooplankton, dominant species, % constituent, and total biomass in Bacchante Bay samples..... 212
Table 64. Diatoms in Gibson Cove samples..... 215
Table 65. Dinoflagellates in Gibson Cove samples..... 218
Table 66. Other flagellates, microzooplankton, dominant species, % constituent, and total biomass in Gibson Cove samples..... 221
Table 67. Diatoms in Bedwell Sound samples..... 224
Table 68. Dinoflagellates in Bedwell Sound samples..... 227
Table 69. Other flagellates, microzooplankton, dominant species, % constituent, and total biomass in Bedwell Sound samples..... 230
Table 70. Diatoms in Indian Bay samples..... 233
Table 71. Dinoflagellates in Indian Bay samples..... 237
Table 72. Other flagellates, microzooplankton, dominant species, % constituent, and total biomass in Indian Bay samples..... 241
Table 73. Diatoms in Charlie's Place samples..... 245
Table 74. Dinoflagellates in Charlie's Place samples..... 247
Table 75. Other flagellates, microzooplankton, dominant species, % constituent, and total biomass in Charlie's Place samples..... 249

Table 76. Diatoms in Thorpe Point samples..... 251
Table 77. Dinoflagellates in Thorpe Point samples..... 255
Table 78. Other flagellates, microzooplankton, dominant species, % constituent, and total biomass in Thorpe Point samples.....259
Table 79. Diatoms in Koskimo Bay samples..... 263
Table 80. Dinoflagellates in Koskimo Bay samples..... 267
Table 81. Other flagellates, microzooplankton, dominant species, % constituent, and total biomass in Koskimo Bay samples.....271

HARMFUL OR POTENTIALLY HARMFUL PHYTOPLANKTON SPECIES AT SPECIFIC SITES; LIST OF FIGURES

Figure 2. Harmful phytoplankton species in Shelter Bay samples..... 275
Figure 3. Harmful phytoplankton species in Shelter Bay samples..... 276
Figure 4. Harmful phytoplankton species in Shelter Pass samples..... 277
Figure 5. Harmful phytoplankton species in Shelter Pass samples..... 278
Figure 6. Harmful phytoplankton species in Greenway Sound samples.....279
Figure 7. Harmful phytoplankton species in Greenway Sound samples.....280
Figure 8. Harmful phytoplankton species in Simoom Sound samples.....281
Figure 9. Harmful phytoplankton species in Simoom Sound samples.....282
Figure 10. Harmful phytoplankton species in Viner Sound samples..... 283
Figure 11. Harmful phytoplankton species in Viner Sound samples..... 284
Figure 12. Harmful phytoplankton species in Warren Islands samples..... 285
Figure 13. Harmful phytoplankton species in Warren Islands samples..... 286
Figure 14. Harmful phytoplankton species in Boughy Bay samples..... 287
Figure 15. Harmful phytoplankton species in Boughy Bay samples..... 288
Figure 16. Harmful phytoplankton species in Althorp Point samples..... 289
Figure 17. Harmful phytoplankton species in Althorp Point samples..... 290
Figure 18. Harmful phytoplankton species in Chancellor Channel samples... 291
Figure 19. Harmful phytoplankton species in Chancellor Channel samples... 292
Figure 20. Harmful phytoplankton species in Brougham Point samples..... 293
Figure 21. Harmful phytoplankton species in Brougham Point samples..... 294
Figure 22. Harmful phytoplankton species in Homfray Creek samples..... 295
Figure 23. Harmful phytoplankton species in Homfray Creek samples..... 296
Figure 24. Harmful phytoplankton species in Conville Bay samples.....297
Figure 25. Harmful phytoplankton species in Conville Bay samples.....298
Figure 26. Harmful phytoplankton species in Glacial Creek samples.....299
Figure 27. Harmful phytoplankton species in Glacial Creek samples.....300
Figure 28. Harmful phytoplankton species in Power Bay samples..... 301
Figure 29. Harmful phytoplankton species in Power Bay samples..... 302
Figure 30. Harmful phytoplankton species in Kunechin Point samples..... 303
Figure 31. Harmful phytoplankton species in Kunechin Point samples..... 304
Figure 32. Harmful phytoplankton species in Departure Bay samples..... 305
Figure 33. Harmful phytoplankton species in Departure Bay samples..... 306
Figure 34. Harmful phytoplankton species in Coffin Point samples..... 307
Figure 35. Harmful phytoplankton species in Coffin Point samples..... 308

Figure 36. Harmful phytoplankton species in Saltspring Island samples..... 309
Figure 37. Harmful phytoplankton species in Saltspring Island samples..... 310
Figure 38. Harmful phytoplankton species in Jane Bay samples..... 311
Figure 39. Harmful phytoplankton species in Jane Bay samples..... 312
Figure 40. Harmful phytoplankton species in Pretty Girl Cove samples..... 313
Figure 41. Harmful phytoplankton species in Pretty Girl Cove samples..... 314
Figure 42. Harmful phytoplankton species in Bacchante Bay samples..... 315
Figure 43. Harmful phytoplankton species in Bacchante Bay samples..... 316
Figure 44. Harmful phytoplankton species in Gibson Cove samples..... 317
Figure 45. Harmful phytoplankton species in Gibson Cove samples..... 318
Figure 46. Harmful phytoplankton species in Bedwell Sound samples..... 319
Figure 47. Harmful phytoplankton species in Bedwell Sound samples..... 320
Figure 48. Harmful phytoplankton species in Indian Bay samples..... 321
Figure 49. Harmful phytoplankton species in Indian Bay samples..... 322
Figure 50. Harmful phytoplankton species in Charlie's Place samples..... 323
Figure 51. Harmful phytoplankton species in Charlie's Place samples..... 324
Figure 52. Harmful phytoplankton species in Thorpe Point samples..... 325
Figure 53. Harmful phytoplankton species in Thorpe Point samples..... 326
Figure 54. Harmful phytoplankton species in Koskimo Bay samples..... 327
Figure 55. Harmful phytoplankton species in Koskimo Bay samples..... 328

ENVIRONMENTAL PARAMETERS AT SPECIFIC SITES; LIST OF FIGURES

Figure 56. Environmental monitoring data for Shelter Bay 329
Figure 57. Environmental monitoring data for Greenway Sound 330
Figure 58. Environmental monitoring data for Althorp Point 331
Figure 59. Environmental monitoring data for Chancellor Channel 332
Figure 60. Environmental monitoring data for Homfray Creek 333
Figure 61. Environmental monitoring data for Conville Bay 334
Figure 62. Environmental monitoring data for Glacial Creek 335
Figure 63. Environmental monitoring data for Power Bay 336
Figure 64. Environmental monitoring data for Kunechin Point 337
Figure 65. Environmental monitoring data for Departure Bay 338
Figure 66. Environmental monitoring data for Coffin Point 339
Figure 67. Environmental monitoring data for Indian Bay..... 340

WATER NUTRIENT PARAMETERS AT SPECIFIC SITES; LIST OF FIGURES

Figure 68. Nutrient concentrations in Boughy Bay samples.....341
Figure 69. Nutrient concentrations in Homfray Creek samples.....342
Figure 70. Nutrient concentrations in Glacial Creek samples..... 343
Figure 71. Nutrient concentrations in Kunechin Point samples.....344
Figure 72. Nutrient concentrations in Charlie's Place samples.....345
Figure 73. Nutrient concentrations in Koskimo Bay samples.....346

Table 1 : Diatoms in Shelter Bay samples.

date	01-Mar			08-Mar			15-Mar			21-Mar			29-Mar			05-Apr			12-Apr			19-Apr			26-Apr			03-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.	1																													
Biddulphia sp.																														
Campylosiral Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus									1																					
Chaetoceros sp.	1		1											1					2	2	3	2	4	3	1	2	2			
Corethron hystrix				1						1																				
Coscinodiscus sp.																					1	1	1	1						
Cylindrotheca closterium	1	1																												
Dactylisolen sp.																														
Detonula pumila																														
Ditylum brightwellii																														
Eucampia zoodiacus																														
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																									1					
Leptocylindrus danicus																														
Leptocylindrus minimus																												1		
Licmophora sp.	1																1									1				
Melosira sp.							1																					1	1	1
Navicula sp.	1		1	1		1						1								1										
Nitzschioid sp.									1																					
Pleurosigma/ Gyrosigma sp.																														
Rhizosolenia setigera																														
Rhizosolenia sp. (pointy)																														
Rhizosolenia sp. (blunt)										1																				
Rhizosolenia stolterfothii																				1		1								
Skeletonema costatum			1	1	1	1										1	1				1									
Stephanopyxis sp.																	1													1
Thalassionema sp.																	1													
Thalassiosira sp.	1	1	2	1	1					1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	1	1	1	1	1	1

Table 1 cont'd

date	10-May			17-May			24-May			31-May			07-Jun			14-Jun			21-Jun			29-Jun			05-Jul			12-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																													1	1
Asterionella japonica								1																						
Bacteriastrum sp.																	1													
Biddulphia sp.																														
Campylosira/Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne																			1			1								1
Chaetoceros convolutus								1																						
Chaetoceros sp.	1			3	1	2	3	3	2	3	2	4	3	1	3	3	3	2	7	5	4	8	5	3	2	3	1	6	5	5
Corethron hystrix						1																								
Coscinodiscus sp.																			1		1	1		1						1
Cylindrotheca closterium																														
Dactyliosolen sp.							1		1		1																			
Detonula pumila												1						1	1			1	1	1				1	1	1
Ditylum brightwellii																				1	1		1	1				1	1	1
Eucampia zoodiacus																														
Grammatophora sp.																														
Hemialus sp.																												1		1
Lauderia annulata															1	1			1	1	1	1	1			1		1	1	1
Leptocylindrus danicus																														
Leptocylindrus minimus																		1												
Licmophora sp.																														
Melosira sp.																			1	1				1						
Navicula sp.				1	1	1		1	1	1		1	1	1		1		1	2		1	1	1	1	1	1		1	1	1
Nitzschioid sp.															1															
Pleurosigma/ Gyrosigma sp.															1				1				1					1	1	1
Rhizosolenia setigera																			1	1										
Rhizosolenia sp. (pointy)														1	1															
Rhizosolenia sp. (blunt)							1																			1				
Rhizosolenia stolterfothii										1																				
Skeletonema costatum	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Stephanopyxis sp.											1																			
Thalassionema sp.				1	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Thalassiosira sp.				1	1	2	2	1	1	1	1	2	1	1	1	1	1	1	2	2	2	3	3	3	1	1	1	2	2	2

Table 1 cont'd

date	19-Jul			26-Jul			09-Aug			23-Aug			06-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms															
Achnanthes sp.															
Amphiprora/ Tropidoneis															
Asterionella japonica							1								
Bacteriastrum sp.															
Biddulphia sp.															
Campylosira/Plagiogramma															
Cerautalina sp.															
Chaetoceros concavicorne															
Chaetoceros convolutus															
Chaetoceros sp.	2	2	1	3	3	1	7	4	4				2		
Corethron hystrix								1							1
Coscinodiscus sp.															1
Cylindrotheca closterium															
Dactyliosolen sp.															
Detonula pumila															
Ditylum brightwellii		1	1		1	1	1								
Eucampia zoodiacus	1	1	1	1	1	1	1		1						
Grammatophora sp.															
Hemialus sp.															
Lauderia annulata															
Leptocylindrus danicus	1	1	1	1	1	1	1	1	1						
Leptocylindrus minimus															
Licmophora sp.															
Melosira sp.				1											
Navicula sp.	1														
Nitzschioid sp.			1	1		1	1	1	1						
Pleurosigma/ Gyrosigma sp.															
Rhizosolenia setigera	1		1	1	1	1	1		1						
Rhizosolenia sp. (pointy)							1								
Rhizosolenia sp. (blunt)		1	1				1								1
Rhizosolenia stolterfothii		1													
Skeletonema costatum			1	1			1	1	1					1	1
Stephanopyxis sp.															
Thalassionema sp.	1	1	1	1		1		1	1						
Thalassiosira sp.	1	1	1	1	1	1	2	2	2	1				1	1

Table 2 : Dinoflagellates in Shelter Bay samples.

date	01-Mar			08-Mar			15-Mar			21-Mar			29-Mar			05-Apr			12-Apr			19-Apr			26-Apr			03-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.																														
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium sp.																														
Cochlodinium sp.																														
Cochlodinium polykrikoides																														
Dinophysioid sp.																						1								
Gonyaulacoid sp.																2	2	1			1	1	2	2	1			2	1	1
Gymnodinioid sp.	1	1	2	1				1		1	1	1																		
Gymnodinium galatheanum																														
Gyrodinium spirale-type																														
Heterocapsa triquetra																														
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum sp.																									1			1		
Protoperidinioid sp.																														
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 2 cont'd

date	10-May			17-May			24-May			31-May			07-Jun			14-Jun			21-Jun			29-Jun			05-Jul			12-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.																														
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																	1													
Ceratium sp.																														
Cochlodinium sp.																														
Cochlodinium polykrikoides																														1
Dinophysioid sp.																														
Gonyaulacoid sp.																														
Gymnodinioid sp.	1	1		1			3		1	2	1	2	1	1	2		2	1	2	1	1	3	2	3	1	1		1		
Gymnodinium galatheanum																		1		1	1	1	1							
Gyrodinium spirale-type																1	1											1		1
Heterocapsa triquetra							1	1	1	1	1		1																	
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum sp.																						1		2			1	2	1	1
Protoperidinioid sp.				1	1	1	3	2	2	3	1	1	2	1	1	2	2	1												
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 2 cont'd

date	19-Jul			26-Jul			09-Aug			23-Aug			06-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates															
Alexandrium sp.															
Amphidinium sp.															
Ceratium divericatum															
Ceratium furca															
Ceratium fusus															
Ceratium lineatum															1
Ceratium sp.															
Cochlodinium sp.										1		1			
Cochlodinium polykrikoides						1	1	1		1	1	1			
Dinophysioid sp.													1		1
Gonyaulacoid sp.													3	1	2
Gymnodinioid sp.	1	2	2	2	1	1	1	1	2	2	2	1			
Gymnodinium galatheanum				1					1				1		
Gyrodinium spirale-type							1	1							
Heterocapsa triquetra															
Noctiluca scintillans	1														
Noctilucoid sp.															
Oxyrrhis marina															
Oxytoxum sp.															
Polykrikos sp.								1				1			1
Prorocentrum gracile															
Prorocentrum micans															
Prorocentrum sp.															
Protoperidinioid sp.	1			1			1	2	2	2	1				
Pyrocystis lunula															
Raphidophytes															
Heterosigma akashiwo															

Table 3 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Shelter Bay samples.

date	01-Mar			08-Mar			15-Mar			21-Mar			29-Mar			05-Apr			12-Apr			19-Apr			26-Apr			03-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum						1		1																						
Dinobryon balticum																														
Ebria tripartita														1																
Euglenoid	1	1	1																											
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	3	4	4	5	5	4	5	3	4	4	3	4	5	6	6	4	3	2	5	4	3	4	4	5	2	2	3	3	3	3
Zooplankton																														
Appendicularian														1	2	2	1	3		1	2	1	2	2		1	1	1	1	
Ciliate			1				2	2	1	2		1																		
Copepod																									1					
Nauplius																														
Pluteus																														
Rotifer																														
Tintinnid																														
Zoea																														
other																														
Dominant Species/Group																														
name	diatoms	diatoms	diatoms	*Navicula sp.*	*Skeletonema costatum*	*Skeletonema costatum*	ciliates	ciliates	*Chaetoceros convolutus*	*Thalassiosira sp.*	*Thalassiosira sp.*	*Thalassiosira sp.*	*Thalassiosira sp.*	*Chaetoceros debilis*	*Thalassiosira sp.*	*Gymnodinium spp.*	*Gymnodinium spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Thalassiosira sp.*	*Thalassiosira sp.*	*Chaetoceros spp.*	*Thalassiosira sp.*	*Thalassiosira sp.*	*Thalassiosira sp.*
count (cells/mL)	~10	~4	~6	~5	~5	~4	~5	~2	~3	~6	~5	~4	~6	~20	~4	~6	~4	~20	~40	~50	~100	~350	~460	~360	~8	~6	~15	~10	~5	~6
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	70	60	65	80	80	75	30	0	80	60	75	70	70	70	50	25	50	75	95	92	85	75	80	75	60	70	80	50	60	70
Dinoflagellates	15	10	15	10	0	0	0	30	0	10	15	10	0	0	0	57	40	10	0	0	3	15	10	15	15	0	0	40	20	15
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	15	30	15	10	20	25	5	30	10	10	10	10	30	20	20	3	3	2	5	3	5	5	4	4	15	10	10	5	10	15
Zooplankton	0	0	5	0	0	0	65	40	10	20	0	10	0	10	30	15	7	13	0	5	7	5	6	6	10	20	10	5	10	0
Biomass	1.5	1.0	1.0	1.5	1.0	1.0	1.0	1.0	1.0	1.5	1.0	1.0	1.0	1.5	1.0	1.5	1.0	1.0	2.0	2.0	2.5	3.0	3.0	3.0	1.0	1.0	1.0	1.5	1.0	1.0

Table 3 cont'd

date	10-May			17-May			24-May			31-May			07-Jun			14-Jun			21-Jun			29-Jun			05-Jul			12-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																				1										
Dictyocha speculum								1																						
Dinobryon balticum																														
Ebria tripartita											1																			
Euglenoid																														
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	2	3	3	4	3	4	3	3	3	2	3	3	4	3	3	1	1	3	5	4	2	4	3	2	2	2	3	4	2	2
Zooplankton																														
Appendicularian																														
Ciliate	1	1	2	3	1	2	2	1	1	1	2	1	3	1	3	3	1	1	2	1		3	2	4			2	2		1
Copepod											1					1	1								1			1		
Nauplius																														
Pluteus																		1					1							
Rotifer																														
Tintinnid								1																						
Zoea																														
other																														
Dominant Species/Group																														
name	*Skeletonema costatum*	*Gymnodinium sp.*	ciliates	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Chaetoceros debilis*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Thalassiosira sp.*	*Thalassiosira sp.*	*Skeletonema costatum*	*Chaetoceros spp.*	*Skeletonema costatum*	*Skeletonema costatum*
count (cells/mL)	~10	~2	~3	~350	~150	~180	~100	~220	~160	~65	~130	~250	~250	~200	~500	~200	~460	~350	~570	~420	~130	1400	1300	~140	~110	~55	~170	~700	~500	~400
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	50	0	0	80	85	80	60	80	73	65	70	85	85	80	75	70	87	85	95	89	94	85	90	85	90	90	95	85	96	93
Dinoflagellates	10	40	0	5	5	5	35	14	20	32	24	12	10	10	10	20	8	10	3	5	5	5	4	5	5	5	3	10	2	4
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	30	40	40	5	5	5	3	4	5	2	3	2	2	5	5	1	2	3	1	5	1	2	1	1	2	1	2	2	2	2
Zooplankton	10	20	60	10	5	10	2	2	2	1	3	1	3	5	10	9	3	2	1	1	0	8	5	9	3	4	0	3	0	1
Biomass	1.0	1.0	1.0	2.5	2.0	2.0	2.5	3.0	2.5	2.5	2.5	3.0	2.5	2.0	2.5	2.5	3.0	2.0	3.0	2.5	2.0	3.5	3.0	2.5	3.0	2.5	2.0	3.5	3.5	3.5

Table 3 cont'd

date	19-Jul			26-Jul			09-Aug			23-Aug			06-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates															
Cryptomonads															
Dictyocha speculum															
Dinobryon balticum															
Ebria tripartita															
Euglenoid															
Phaeocystis pouchetii															
Radiolarian															
unid. Nanoflagellates	2	3	2	3	1	2	3	3	2	4	2	3	3	4	2
Zooplankton															
Appendicularian															
Ciliate	3	2	1	1	1		2						4	3	1
Copepod										1	2				
Nauplius							1								
Pluteus															
Rotifer															
Tintinnid									1		1				
Zoea															
other										1					
Dominant Species/Group															
name	*Chaetoceros spp.*	*Chaetoceros spp.*	*Ditylum brightwellii*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros debilis*	*Chaetoceros spp.*	*Pseudonitzschia sp.*	*Chaetoceros spp.*	dinoflagellates	dinoflagellates	*Cochlodinium polykrikoides*	*Chaetoceros spp.*	ciliates	diatoms
count (cells/mL)	~40	~20	~10	~20	~40	~40	1800	~430	~730	~15	~5	~3	~10	~6	~10
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	80	90	86	85	90	85	85	90	88	5	0	0	30	30	55
Dinoflagellates	10	5	10	10	6	13	8	9	9	85	75	90	35	10	30
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	2	2	2	2	2	2	1	1	1	5	5	2	5	10	5
Zooplankton	8	3	2	3	2	0	6	0	1	5	20	8	30	50	10
Biomass	1.5	1.5	1.5	1.5	1.5	1.5	3.5	2.5	2.5	1.0	1.0	1.0	1.5	1.0	1.0

Table 4 : Diatoms in Shelter Pass samples.

date	20-Feb			01-Mar			06-Mar			20-Mar			29-Mar			02-Apr			12-Apr			19-Apr			26-Apr			02-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.												1				1														
Amphiproral Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.																													1	
Biddulphia sp.																											1			
Campylosiral Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne											1																			
Chaetoceros convolutus													2	2			2	1	3	3	4	5	5	4	2	2	1		1	
Chaetoceros sp.						d											1			1										
Corethron hystrix																														
Coscinodiscus sp.										1												1		1						
Cylindrotheca closterium						1																								
Dactylisolen sp.																														
Detonula pumila																														
Ditylum brightwellii																														
Eucampia zoodiacus																														
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus								1																						
Leptocylindrus minimus									1			1	1	1	1			1	1	1	1						1	1	1	1
Licmophora sp.						1																							1	
Melosira sp.	1			1					1	1	1		1		1	1	2	1	1		1	1				1	1	1		1
Navicula sp.						1	1		1			2	1		1	1		1		1						1	2	1		
Nitzschioid sp.															1						1									
Pleurosigmal Gyrosigma sp.																														
Rhizosolenia setigera																												1		
Rhizosolenia sp. (pointy)											1												1							
Rhizosolenia sp. (blunt)																					1									
Rhizosolenia stolterfothii				1																	1				1					
Skeletonema costatum				1		1	1	1	1																					
Stephanopyxis sp.																				1							1			
Thalassionema sp.	1		1										1	1	2	2	2	1	2	2	2	2	3	3	1	1	1	1	1	
Thalassiosira sp.					1	1			1		1	1				1	1													
Thalassiothrix sp.																														

Table 4 cont'd

date	10-May			15-May			23-May			02-Jun			07-Jun			14-Jun			19-Jun			27-Jun			04-Jul			12-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis										1																	1			
Asterionella japonica																														
Bacteriastrum sp.								1	1													1		1			1	1		
Biddulphia sp.																														
Campylosira/Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne														1									1	1	1	1		1		
Chaetoceros convolutus							6	3	4		2	1	8	9	8	5	5	7	5	5	6	1	3	4	6	2	3	9	10	8
Chaetoceros sp.			1										1																1	
Corethron hystrix																									1					
Coscinodiscus sp.													1	1											1				1	
Cylindrotheca closterium																														
Dactyliolen sp.														1																
Detonula pumila																								1	1	1		1	1	1
Ditylum brightwellii								1																1	1	1			1	
Eucampia zoodiacus																														
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata									1					1	1	1		1	1	1	1			1	1	1		1	1	1
Leptocylindrus danicus																														
Leptocylindrus minimus														1																
Licmophora sp.			1			1	1																							
Melosira sp.								1															1							
Navicula sp.									1				1	1																
Nitzschioid sp.		1	1				1	1	1		1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Pleurosigma/ Gyrosigma sp.																								1						
Rhizosolenia setigera																									1	1	1	1	1	1
Rhizosolenia sp. (pointy)																1		1	1											1
Rhizosolenia sp. (blunt)			1																						1					
Rhizosolenia stolterfothii																														
Skeletonema costatum		1					1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Stephanopyxis sp.													1																	
Thalassionema sp.							1	1			1	1	1	1		1	1	1	1	1	1	1	1		1	1	1	1	1	1
Thalassiosira sp.	2	1	2				2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	1	1	1	3	2	2	2	2	2
Thalassiothrix sp.																														

Table 4 cont'd

date	22-Jul			26-Jul			02-Aug			09-Aug			16-Aug			21-Aug			30-Aug			05-Sep			19-Sep			27-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																	1													
Amphiprora/ Tropidoneis																							1							
Asterionella japonica							1		1				1	1	1			1												
Bacteriastrum sp.																														
Biddulphia sp.																														
Campylosira/Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne										1					1															
Chaetoceros convolutus							4	8	7	4	4	3	5	3	7	4	5	4	7	3	3	2	2	2						
Chaetoceros sp.		1																												
Corethron hystrix		1																												
Coscinodiscus sp.															1		1													
Cylindrotheca closterium																														
Dactyliosolen sp.																														
Detonula pumila															1	1			1				1				1	1	1	1
Ditylum brightwellii		1						1		1	1					1	1	1	1				1	1			1			
Eucampia zoodiacus					1		1	1	1	1	1	1	1	1	1	1	1	1	1											
Grammatophora sp.																														
Hemialus sp.											1																			
Lauderia annulata																														
Leptocylindrus danicus		1					1	1	1	1	1	1	1	1	1	1	1	1	1	1										
Leptocylindrus minimus																				1										
Licmophora sp.													1		1															
Melosira sp.																	1		1	1										
Navicula sp.																														
Nitzschioid sp.		1		1			1	1	1	1	1		1	2	1	1	1	1	1	1	1									
Pleurosigma/ Gyrosigma sp.																														
Rhizosolenia setigera		1					1	1	1	1	1	1	1	1	1	1	1	1												
Rhizosolenia sp. (pointy)																														
Rhizosolenia sp. (blunt)		1			1				1						1															
Rhizosolenia stolterfothii																														
Skeletonema costatum		1					1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
Stephanopyxis sp.																														
Thalassionema sp.							1	1					1	1	1	1			1											
Thalassiosira sp.		1			1		1	1	2	1	1	2	1	1	1	1	1		1	2	2	1	1	1			1	1		1
Thalassiothrix sp.																														

Table 4 cont'd

date	03-Oct			11-Oct			17-Oct			24-Oct			01-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms															
Achnanthes sp.															
Amphiprora/ Tropidoneis															
Asterionella japonica															
Bacteriastrum sp.															
Biddulphia sp.															
Campylosira/Plagiogramma															
Cerautalina sp.															
Chaetoceros concavicorne															
Chaetoceros convolutus												1			
Chaetoceros sp.			1		1	1									
Corethron hystrix															
Coscinodiscus sp.												1			
Cylindrotheca closterium					1										
Dactyliosolen sp.															
Detonula pumila															
Ditylum brightwellii	1	1	1				1								
Eucampia zoodiacus															
Grammatophora sp.															
Hemialus sp.															
Lauderia annulata															
Leptocylindrus danicus															
Leptocylindrus minimus															
Licmophora sp.										1					
Melosira sp.										1	1		1		
Navicula sp.							1								
Nitzschioid sp.															
Pleurosigma/ Gyrosigma sp.															
Rhizosolenia setigera															
Rhizosolenia sp. (pointy)															
Rhizosolenia sp. (blunt)					1	1									
Rhizosolenia stolterfothii						1									
Skeletonema costatum		1									1		1		
Stephanopyxis sp.															
Thalassionema sp.	1		1				1		1		1	1			
Thalassiosira sp.															
Thalassiothrix sp.															

Table 5 : Dinoflagellates in Shelter Pass samples.

date	20-Feb			01-Mar			06-Mar			20-Mar			29-Mar			02-Apr			12-Apr			19-Apr			26-Apr			02-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.																														
Ceratium divaricatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium sp.																														
Cochlodinium polykrikoides																														
Dinophysioid sp.																													1	
Gonyaulacoid sp.														1			1		1	2	1					1	1	2	2	1
Gymnodinioid sp.				1	1	1	1	1		1	1																			
Gymnodinium galatheanum																														
Gyrodinium spirale-type																														
Heterocapsa triquetra																														
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyphysis oxytoxoides																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum sp.																			1			2				1				
Protoperidinioid sp.																														
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 5 cont'd

date	10-May			15-May			23-May			02-Jun			07-Jun			14-Jun			19-Jun			27-Jun			04-Jul			12-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																									1					
Amphidinium sp.																														
Ceratium divaricatum																														
Ceratium furca																														
Ceratium fusus									1																					
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium sp.																														
Cochlodinium polykrikoides																														
Dinophysioid sp.																														
Gonyaulacoid sp.																														
Gymnodinioid sp.	1	1		1	1	1	1		1		1	1	3	4	2	3	1	1	3		3		1	2	5	2	2		2	1
Gymnodinium galatheanum														1		1										1				1
Gyrodinium spirale-type																1	1	1										1		
Heterocapsa triquetra																														
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyphysis oxytoxoides																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum sp.																					2	2		1	3	2		2	1	
Protoperidinioid sp.								1			1		1	1	1	3		1												
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 5 cont'd

date	22-Jul			26-Jul			02-Aug			09-Aug			16-Aug			21-Aug			30-Aug			05-Sep			19-Sep			27-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																													1	
Amphidinium sp.																														
Ceratium divaricatum																														
Ceratium furca																														
Ceratium fusus																			1						1		1			
Ceratium lineatum																														
Ceratium pentagonum																					1						1			1
Ceratium sp.																														
Cochlodinium sp.																														
Cochlodinium polykrikoides										1		1				1	1	1										1		
Dinophysioid sp.					1		1			1		1							1					1						
Gonyaulacoid sp.													1	1							1	1					1			1
Gymnodinioid sp.		2		1	2		3	5	5	2	1	1	4	2	3	2	3	2	1		1	1	3	2		3	1	2	1	1
Gymnodinium galatheanum																														
Gyrodinium spirale-type							1	1					2	2	1	2	1		1				1			1				
Heterocapsa triquetra								1		1	1	1		1	1										1					
Noctiluca scintillans																														
Noctilucoid sp.																	1													
Oxyphysis oxytoxoides																														
Oxymhis marina																														
Oxytoxum sp.																														
Polykrikos sp.				1															1	1										
Prorocentrum gracile							1				1	1																		
Prorocentrum micans												1																		
Prorocentrum sp.																														
Protoperidinioid sp.				1			2	2	3	1	2	2	2	1		1	2		3	2	1	1	1			1		2		
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 5 cont'd

date	03-Oct			11-Oct			17-Oct			24-Oct			01-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates															
Alexandrium sp.															
Amphidinium sp.															
Ceratium divaricatum									1		1			1	
Ceratium furca														1	
Ceratium fusus															
Ceratium lineatum		1			1			1							
Ceratium pentagonum															
Ceratium sp.															
Cochlodinium sp.															
Cochlodinium polykrikoides															
Dinophysioid sp.			1												
Gonyaulacoid sp.	1					1									
Gymnodinioid sp.	4	4	2	3	4	3	3	3		3	3	1	2	1	1
Gymnodinium galatheanum															
Gyrodinium spirale-type	1														
Heterocapsa triquetra															
Noctiluca scintillans															
Noctilucoid sp.															
Oxyphysis oxytoxoides															
Oxyrrhis marina															
Oxytoxum sp.															
Polykrikos sp.															
Prorocentrum gracile															
Prorocentrum micans															
Prorocentrum sp.															
Protoperidinioid sp.				2											
Pyrocystis lunula															
Raphidophytes															
Heterosigma akashiwo															

Table 6 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Shelter Pass samples.

date	20-Feb			01-Mar			06-Mar			20-Mar			29-Mar			02-Apr			12-Apr			19-Apr			26-Apr			02-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																					1									
Dictyocha speculum																														
Dinobryon balticum																														
Ebria tripartita																														
Euglenoid																														
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	5	4	4	4	3	5	5	3	3	4	4	4	5	5	4	1	4	3	3	3	3	2	3	2	2	3	3	3	4	4
Zooplankton																														
Amoebae																														
Appendicularian													1	1	1	1	1	1				2			2	1	2	1	2	1
Ciliate						1																			1					
Copepod																														
Nauplius																														
Pluteus																														
Rotifer																														
Tintinnid																														
Zoea																						1								
other																														
Dominant Species/Group																														
name	*Thalassionema nitzschioide*	no dominant	*Thalassionema nitzschioide*	*Skeletonema costatum*	diatoms	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Navicula sp.*	diatoms	*Chaetoceros convolutus*	*Navicula sp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Licmophora sp.*	*Thalassiosira sp.*	*Thalassiosira sp.*	*Licmophora sp.*	*Chaetoceros spp.*	*Thalassiosira spp.*	*Chaetoceros spp.*	*Chaetoceros debilis*	*Chaetoceros debilis*	*Chaetoceros debilis*	*Thalassiosira sp.*	*Chaetoceros debilis*	*Licmophora sp.*	*Licmophora sp.*	*Thalassiosira sp.*	*Licmophora sp.*
count (cells/mL)	~10		~4	~15	~8	~10	~50	~10	~8	~6	~5	~50	~20	~30	~150	~5	~5	~65	~300	~170	~220	~200	~530	~350	~13	~31	~170	~40	~15	~360
	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	90	0	80	80	70	75	70	80	90	75	80	90	80	80	95	75	80	90	95	95	92	90	99	99	83	92	89	70	55	80
Dinoflagellates	0	0	0	10	15	10	15	10	0	15	10	0	0	5	0	0	5	0	4	4	7	4	0	0	0	3	5	15	25	10
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	10	100	20	10	15	10	15	10	10	10	10	10	10	5	2	5	5	5	1	1	1	1	1	1	1	2	1	5	5	5
Zooplankton	0	0	0	0	0	5	0	0	0	0	0	0	10	10	3	20	10	5	0	0	0	5	0	0	16	3	5	10	15	5
Biomass	1.0	1.0	1.0	1.5	1.0	1.5	2.0	1.5	1.5	1.0	1.5	2.0	1.5	1.5	2.5	1.0	1.5	1.5	2.0	3.0	2.5	2.5	3.0	3.0	1.0	1.0	2.0	2.5	2.0	3.0

Table 6 cont'd

date	10-May			15-May			23-May			02-Jun			07-Jun			14-Jun			19-Jun			27-Jun			04-Jul			12-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																1		1	1		1				1	1				
Dictyocha speculum																														
Dinobryon balticum																1					1									
Ebria tripartita																														
Euglenoid																														
Phaeocystis pouchetii																														
Radiolarian	3	3	3	2	2	2	4	3	3	2	2	2	5	4	4	3	2	2	2	2	3	2	2	3	4	2	4	2	2	4
unid. Nanoflagellates																														
Zooplankton																														
Amoebae																														
Appendicularian																						1			6	3	2		1	
Ciliate		1		1	2	1		1			1	2	2	2	1	4		1		1	2									
Copepod																									1					
Nauplius																														
Pluteus																														
Rotifer													1						1		1				1					
Tintinnid																														
Zoea																														
other																														
Dominant Species/Group name																														
	Thalassiosira sp.	*Pseudonitzschia sp.*	*Licmophora sp.*	no dominant	ciliates	ciliates	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Thalassiosira spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Chaetoceros debilis*	*Chaetoceros debilis*	*Chaetoceros debilis*	*Skeletonema costatum*	*Chaetoceros spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Thalassiosira spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Chaetoceros spp.*	*Skeletonema costatum*
count (cells/mL)	~30	~400	~160		~4	~2	2500	~580	1100	~20	~40	~30	1000	1700	~640	~400	1100	~500	1200	1700	1000	~90	~250	~200	2300	~900	~400	~200	~300	~200
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	90	85	95	0	0	20	93	85	90	90	65	90	85	85	94	80	95	90	80	97	80	85	90	85	75	83	87	90	85	90
Dinoflagellates	5	5	0	20	20	20	5	5	6	0	15	5	5	10	3	10	4	5	17	0	14	10	6	10	14	10	8	8	10	7
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	3	5	4	3	1	2	2	2	3	3
Other Flagellates	5	5	5	60	40	30	2	5	4	5	2	5	2	1	1	5	1	3	3	1	3	5	4	3	10	5	3	0	2	0
Zooplankton	0	5	0	20	40	30	0	5	0	5	18	0	8	4	2	5	0	2	0	2	3	0	0	2	10	5	3	0	2	0
Biomass	1.5	1.5	2.0	1.0	1.0	1.0	3.5	2.5	3.0	1.5	2.0	1.5	3.5	3.5	3.0	3.0	3.0	3.0	3.5	3.5	3.0	2.0	2.0	2.5	3.0	3.0	2.5	3.5	3.5	3.0

Table 6 cont'd

date	22-Jul			26-Jul			02-Aug			09-Aug			16-Aug			21-Aug			30-Aug			05-Sep			19-Sep			27-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																						1					1			
Dictyocha speculum										1			1			1														
Dinobryon balticum																														
Ebria tripartita				1																										
Euglenoid																														
Phaeocystis pouchetii																														
Radiolarian			3		3	1		2	3	3	1	2	3	4	4	3	3	3	5	3	3	3	3	2	2	3	3	2	3	3
unid. Nanoflagellates																														
Zooplankton																														
Amoebae												1																		
Appendicularian							1																				3			
Ciliate		1		2	1		3	3	3	1	1		5	5	5	2	4		6	2		1	1	3				1		1
Copepod																								1						
Nauplius					1					1																				
Pluteus																														
Rotifer													1					1												
Tintinnid							1	1						1																
Zoea																		1												
other					1																									
Dominant Species/Group	no sample			*Skeletonema costatum*			no sample			*Pseudonitzschia sp.*			*Pseudonitzschia sp.*			*Chaetoceros spp.*			*Pseudonitzschia sp.*			*Pseudonitzschia sp.*			*Skeletonema costatum*			*Skeletonema costatum*			*Eucampia zoodiacus*			*Chaetoceros spp.*			*Eucampia zoodiacus*			*Skeletonema costatum*			*Skeletonema costatum*			*Skeletonema costatum*			dinoflagellates			dinoflagellates			dinoflagellates			*Ditylum brightwellii*			*Ditylum brightwellii*			*Ditylum brightwellii*		
name																														
count (cells/mL)		~130			~12			~260			~180			~520			~210			~340			~90			~30			~120			~40			14000			5600			2600			~450			~810			~440			~2			~5			~6			~3			~1		
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	95	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	70	85	83	50	50	77	65	70	70	87	92	80	75	80	80	87	80	90	85	90	90	80	90	90	0	0	30	79	80	45
Dinoflagellates	24	5	13	40	35	19	23	20	25	10	5	18	15	13	10	10	10	3	5	5	9	16	7	4	65	85	35	20	10	45
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	3.5	5	2	5	5	2	2	2	2	1	2	2	2	1	1	1	2	1	1	1	1	3	2	2	35	15	10	1	5	5
Zooplankton	2.5	5	2	5	10	2	10	8	4	2	1	0	8	5	9	2	8	1	9	4	0	1	1	4	0	25		0	5	5
Biomass	1.3	1.5	3.0	1.0	1.0	3.0	3.0	3.5	3.0	3.5	3.5	3.0	3.0	2.5	3.0	2.5	2.5	2.0	4.0	3.5	3.0	2.0	2.5	2.0	1.0	1.0	1.5	2.0	1.5	1.0

Table 6 cont'd

date	03-Oct			11-Oct			17-Oct			24-Oct			01-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates															
Cryptomonads															
Dictyocha speculum								1					1		
Dinobryon balticum															
Ebria tripartita															
Euglenoid															
Phaeocystis pouchetii															
Radiolarian					1										
unid. Nanoflagellates	4	2	3	4	5	3	3	2	2	5	4	4	3	2	3
Zooplankton															
Amoebae															
Appendicularian															
Ciliate	2	4	4	2	1	4	2	1	2	5	2	4	2		
Copepod															
Nauplius															
Pluteus															
Rotifer															
Tintinnid															
Zoea															
other															
Dominant Species/Group															
name	*Ditylum brightwellii*	*Ditylum brightwellii*	*Ditylum brightwellii*	ciliates	diatoms	ciliates	*Ditylum brightwellii*	*Ceratium lineatum*	*Ceratium divaricatum*	ciliates	*Ceratium divaricatum*	ciliates	*Navicula sp.*	*Ceratium fusus*	gymnodinioid dinoflagellates
count (cells/mL)	-4	-5	-4	-3	-5	-5	-1	-1	-1	-10	-1	-5	-1	-1	-1
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	45	50	70	0	35	40	95	0	20	35	30	35	60	0	0
Dinoflagellates	45	25	10	55	35	15	2	65	60	10	40	10	15	99	40
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	2	1	1	5	5	5	1	30	1	5	10	10	15	1	60
Zooplankton	8	24	19	40	25	40	2	5	19	50	20	45	10	0	0
Biomass	2.5	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.0	1.0	1.0	1.0

Table 7 : Diatoms in Greenway Sound samples.

date	24-Apr			30-Apr			06-May			13-May			24-May			28-May			03-Jun			10-Jun			17-Jun			19-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.													1	1			1	1												
Biddulphia sp.																														
Campylosira/Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus			1																											
Chaetoceros sp.	4	5	5	1	1	1	1			1	1	1	3	3	2	4	4	3	1	1	1	2	1	2	1	2	2	1	2	1
Corethron hystrix																														
Coscinodiscus sp.												1						1						1						
Cylindrotheca closterium																														
Dactyliosolen sp.															1		1				1									
Detonula pumila																									1			1	1	
Ditylum brightwellii																														
Eucampia zoodiacus																														
Fragilaria sp.																														
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata											1		1	1	1		1	1		1	1		1	1		1	1			
Leptocylindrus danicus					1																									
Leptocylindrus minimus																														
Licmophora sp.																									1					
Melosira sp.																	1	1						1						
Navicula sp.							1				1	1	1	1	1	1	1	1	1	1	1		1	1		1	1	1	1	1
Nitzschioid sp.	1	1					1	1																					1	
Pleurosigma/ Gyrosigma sp.																			1				1		1	1	1	1	1	1
Rhizosolenia setigera																														
Rhizosolenia sp. (pointy)																							1			1				
Rhizosolenia sp. (blunt)			1																	1			1							
Rhizosolenia stolterfothii										1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Skeletonema costatum	1	1	1																											
Stephanopyxis sp.												1	1	1		1	1			1		1	1	1		1	1			
Thalassionema sp.		1								1	1	1	1	1	1	1	2	2	1	1	1	1	2	2	1	1	2		1	1
Thalassiosira sp.	2	2	2		1	1				1	1	1	1	1	1	1	2	2	1	1	1	1	2	2	1	1	2		1	1

Table 7 cont'd

date	24-Jul			07-Aug			14-Aug			21-Aug			30-Aug			06-Sep			19-Sep			04-Oct			11-Oct			17-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																						1	1	1	1	1	1	1	1	1
Asterionella japonica																														
Bacteriastrum sp.																														
Biddulphia sp.		1																												
Campylosira/Plagiogramma																	1													
Cerautalina sp.							1	1																						
Chaetoceros concavicorne																														
Chaetoceros convolutus																														
Chaetoceros sp.		2	1	2			1			1	1	1	4	1	2	6	5	3	5	4	2	6	6	3	8	8	6		2	1
Corethron hystrix																									1	1				
Coscinodiscus sp.														1											1					
Cylindrotheca closterium	1																		1						1					
Dactylisolen sp.																														
Detonula pumila																			1	1			1			1				
Ditylum brightwellii		1			1		1					1	1	1	1	1	1		1											
Eucampia zoodiacus							1			1	1								1											
Fragilaria sp.																														
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata													1		1			1	1	1		1	1	1	1	1	1			1
Leptocylindrus danicus		1	1				1	1																						
Leptocylindrus minimus																														
Licmophora sp.									1		1	1																		
Melosira sp.																1		1								1	1			
Navicula sp.																	1	1	1	1		2		1	1	1	1		1	
Nitzschioid sp.		1		1		1	1	1	1	1	1	1	1	1	1															
Pleurosigma/ Gyrosigma sp.		1	1																											
Rhizosolenia setigera	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Rhizosolenia sp. (pointy)											1	1		1		1										2	1		1	
Rhizosolenia sp. (blunt)																														
Rhizosolenia stolterfothii																												1		
Skeletonema costatum	1	1	1	1		1	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Stephanopyxis sp.																				1	1	1		1	1					
Thalassionema sp.						1	1			1	1	1	1	1	1	1	2	2	1	2	1	2	1	1	2	3	3		1	1
Thalassiosira sp.		1	1	1	1					1	1	1	1	1	1															

Table 7 cont'd

date	20-Oct			29-Oct		
depth	1m	5m	10m	1m	5m	10m
Diatoms						
Achnanthes sp.						
Amphiproral Tropidoneis						
Asterionella japonica				1		
Bacteriastrum sp.						
Biddulphia sp.						
Campylosiral Plagiogramma						
Cerautalina sp.						
Chaetoceros concavicorne						
Chaetoceros convolutus						
Chaetoceros sp.						
Corethron hystrix						
Coscinodiscus sp.						
Cylindrotheca closterium						
Dactylisolen sp.						
Detonula pumila						
Ditylum brightwellii						
Eucampia zoodiacus						
Fragilaria sp.						
Grammatophora sp.						
Hemialus sp.						
Lauderia annulata						
Leptocylindrus danicus						
Leptocylindrus minimus						
Licmophora sp.						
Melosira sp.						
Navicula sp.						
Nitzschioid sp.						
Pleurosigmal Gyrosigma sp.						
Rhizosolenia setigera						
Rhizosolenia sp. (pointy)						
Rhizosolenia sp. (blunt)						
Rhizosolenia stolterfothii						
Skeletonema costatum	1		1	1		
Stephanopyxis sp.						
Thalassionema sp.						
Thalassiosira sp.		1	1			

Table 8 : Dinoflagellates in Greenway Sound samples.

date	24-Apr			30-Apr			06-May			13-May			24-May			28-May			03-Jun			10-Jun			17-Jun			9-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																	1	1						1					1	
Amphidinium sp.																														
Ceratium divericatum																														
Ceratium furca																													1	1
Ceratium fusus																														
Ceratium lineatum																													1	
Ceratium sp.																												1	1	1
Cochlodinium polykrikoides																														
Cochlodinium sp.																1												1	1	1
Dinophysioid sp.	1						1																							
Diplopsalis sp.																								1						
Gonyaulacoid sp.										1																				
Gymnodinioid sp.	4	3	2	2	1	2	1	2		4	2	2	2	1		2	4	1	4	3	2	3	2		3	2	2	4	6	3
Gymnodinium galatheanum																													1	
Gyrodinium spirale-type	1									2							1											1	1	
Heterocapsa triquetra										1						1	1	1				1			1	1	1	1	1	
Noctiluca scintillans																	1					1				1		1		1
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides																													1	
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum sp.																														
Protoperidinioid sp.		1	1	1			1			2			1			2	7	2		1	2	1		1		2		1	3	2
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 8 cont'd

date	24-Jul			07-Aug			14-Aug			21-Aug			30-Aug			06-Sep			19-Sep			04-Oct			11-Oct			17-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																										1				
Amphidinium sp.		1																												
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus		1				1		1		1		1																		
Ceratium lineatum																														
Ceratium sp.		1																												
Cochlodinium polykrikoides	1	1	1	1	1	1	1	1		1		1	1	1	1	1			1	1		1						1	1	
Cochlodinium sp.																									1					
Dinophysioid sp.		1			1		1	1		1		1	1	2	1				1											
Diplopsalis sp.													1		1				1						1					
Gonyaulacoid sp.																														
Gymnodinioid sp.	5	2	2	4	1	2	7	4	1	3	1	1	7	1		5	2	2	3	4	3	5	4	2	5	5	2	4	5	1
Gymnodinium galatheanum																														
Gyrodinium spirale-type		1						1	1				1	1		2			1	1	1	2		1	1					
Heterocapsa triquetra	1	1	1	1	1	1	1			1	1	1	1		1	1			1					1	1					
Noctiluca scintillans	1	1	1		1	1		1																						
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides								1																						
Polykrikos sp.																									1					
Prorocentrum gracile	1			1	1	1	1	1		1		1	1	1	1	1	1	1	1											
Prorocentrum micans													1												1	1	1			
Prorocentrum sp.																									5	2		1		
Protoperidinioid sp	1	1		1	1	1	3	3	2	1	1		4	3	1	4	2	1	1											
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo								1					1			1	1					1								

Table 8 cont'd

date	20-Oct			29-Oct		
depth	1m	5m	10m	1m	5m	10m
Dinoflagellates						
Alexandrium sp.						
Amphidinium sp.						
Ceratium divericatum						
Ceratium furca						
Ceratium fusus						
Ceratium lineatum						
Ceratium sp.						
Cochlodinium polykrikoides				1		
Cochlodinium sp.						
Dinophysioid sp.						
Diplopsalis sp.						
Gonyaulacoid sp.						
Gymnodinioid sp.	5	4	3	4	2	2
Gymnodinium galatheanum						
Gyrodinium spirale-type		2				1
Heterocapsa triquetra						
Noctiluca scintillans						
Noctilucoid sp.						
Oxyrrhis marina						
Oxyphysis oxytoxoides						
Polykrikos sp.						
Prorocentrum gracile						
Prorocentrum micans						
Prorocentrum sp.	1					
Protoperidinioid sp.		1				
Pyrocystis lunula						1
Raphidophytes						
Heterosigma akashiwo						

Table 9 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Greenway Sound samples.

date	24-Apr			30-Apr			06-May			13-May			24-May			28-May			03-Jun			10-Jun			17-Jun			19-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads							1	1	1		1	1	1	1																
Dictyocha speculum																						1								
Dinobryon balticum																										1	1			
Ebria tripartita							1			1	1				1															
Euglenoid			1																											
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	3	3	3	5	5	5	3	4	3	6	5	3	3	3	3	3	4	2	4	4	3	3	3	3	4	4	3	3	4	3
Zooplankton																														
Appendicularian																														
Barnacle nauplius									1	5	2	3				1	2			1	1	3	1		3	1	1	2	3	3
Ciliate	3	1	2	3	1																									
Copepod																														
Nauplius																														
Pluteus																	1													
Rotifer								1		2	1								1						1					
Tintinnid	2		1		1																									
Zoea																														
other																														
Dominant Species/Group																														
name	*Chaetoceros spp.*	*Chaetoceras socialis*	*Chaetoceros spp.*	ciliates	*Thalassiosira sp.*	*Thalassiosira sp.*	dinoflagellates	dinoflagellates	*Dictyocha speculum*	ciliates & tintinnids	*Pseudonitzschia sp.*	diatoms	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	euglenoids	*Skeletonema costatum*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*
count (cells/mL)	2200	1000	3000	~20	~10	~4	~10	~5	~4	~40	~8	~15	12200	2200	1800	33000	16000	8000	11200	1500	1000	14000	1000	1000	47000	1200	3800	~200	~360	~210
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	78	85	85	15	50	45	20	5	0	10	50	50	90	90	95	93	90	94	90	86	80	70	93	95	75	40	85	78	54	65
Dinoflagellates	10	10	8	30	15	30	60	45	0	35	10	10	8	5	0	4	7	5	8	10	16	24	4	4	10	10	8	15	40	30
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	2	2	2	10	20	25	20	40	80	15	25	25	2	5	5	1	1	1	1	2	2	3	2	1	2	48	5	2	3	2
Zooplankton	10	3	5	45	15	0	0	10	20	40	15	15	0	0	0	2	2	0	1	2	2	3	1	0	13	2	2	5	3	
Biomass	3.5	3.5	3.5	1.5	1.0	1.0	1.0	1.0	1.0	2.0	1.5	1.5	4.0	3.0	3.0	4.5	4.0	3.5	4.5	3.0	2.5	4.5	3.5	2.5	4.0	4.0	3.5	2.5	3.5	3.0

Table 9 cont'd

date	24-Jul			07-Aug			14-Aug			21-Aug			30-Aug			06-Sep			19-Sep			04-Oct			11-Oct			17-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																		1							1					
Dictyocha speculum		1																												
Dinobryon balticum																														
Ebria tripartita													1																	
Euglenoid	1	1	1				1																							
Phaeocystis pouchetii																														
Radiolarian	2	3	3	3	3	2	3	3	1	3	2	2	4	2	2	3	4	2	3	5	2	2	3	2	6	2	2	4	3	3
unid. Nanoflagellates																														
Zooplankton																														
Appendicularian																														
Barnacle nauplius													2	3	2	4	4	2	2	4	1	2	2	1	6	3	1	2	4	3
Ciliate	2	3	1	1		1	3	6	2	2	1																			
Copepod																										1			1	
Nauplius																														
Pluteus									1																					
Rotifer					1		1			1	1		1							1								1		
Tintinnid						1		1						2																
Zoea																														
other																														
Dominant Species/Group name	*Rhizosolenia setigera*			*Rhizosolenia setigera*		*Cochlodinium polykrikoides*	*Rhizosolenia setigera*		*Rhizosolenia setigera*	*Rhizosolenia setigera*		*Rhizosolenia setigera*	*Rhizosolenia setigera*		*Rhizosolenia setigera*	*Skeletonema costatum*		*Skeletonema costatum*	*Skeletonema costatum*		*Skeletonema costatum*	*Skeletonema costatum*		*Skeletonema costatum*	*Skeletonema costatum*		*Thalassiosira spp.*	*Thalassiosira spp.*		*Skeletonema costatum*	*Asterionella japonica*		*Leptocylindrus danicus*
count (cells/mL)	~950	2100	~400	~180	~240	~22	1000	~840	~360	~880	~370	~270	3300	~220	~340	14000	2400	~860	18000	30000	4000	13000	17000	~630	~210	~500	~40	~50	~21	~4
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	70	70	67	48	55	40	80	60	95	60	90	80	55	65	62	70	85	90	90	90	90	90	93	70	70	85	90	70	80	65
Dinoflagellates	27	24	30	50	44	57	15	30	3	35	7	19	40	30	35	25	10	8	8	7	8	7	5	27	20	10	7	25	10	1
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Other Flagellates	1	3	2	1	1	1	1	1	1	2	1	1	3	4	1	2	3	1	1	2	1	2	1	1	3	1	1	2	1	1
Zooplankton	2	3	1	1	0	2	4	9	1	3	2	0	3	4	2	3	3	1	1	2	1	2	1	2	7	4	2	3	9	33
Biomass	3.5	4.0	3.5	4.0	3.0	2.5	4.0	3.5	2.5	3.5	2.5	2.5	4.0	2.5	3.0	4.0	3.0	2.5	4.5	4.5	3.5	3.5	2.5	1.5	4.0	4.0	2.0	1.5	1.5	1.0

Table 9 cont'd

date	20-Oct			29-Oct		
depth	1m	5m	10m	1m	5m	10m
Other Flagellates						
Cryptomonads						
Dictyocha speculum						
Dinobryon balticum						
Ebria tripartita						
Euglenoid						
Phaeocystis pouchetii						
Radiolarian						
unid. Nanoflagellates	3	2	1	4	3	1
Zooplankton						
Appendicularian						
Barnacle nauplius						
Ciliate		1		2	4	1
Copepod			1			
Nauplius						
Pluteus						
Rotifer						
Tintinnid						
Zoea						
other					1	
Dominant Species/Group						
name	gymnodinioid dinoflagellates	gymnodinioid dinoflagellates	*Thalassiosira* sp.	*Cochlodinium polykrikoides*	ciliates	*Pyrocystis lunula*
count (cells/mL)	~20	~20	~3	~3	~5	~1
% constituent	100	100	100	100	100	100
Diatoms	15	3	60	20	0	0
Dinoflagellates	80	90	18	60	9	95
Raphidophytes	0	0	0	0	0	0
Other Flagellates	5	5	2	1	1	1
Zooplankton	0	2	20	19	90	4
Biomass	1.0	1.0	1.0	1.0	1.0	1.0

Table 10 : Diatoms in Simoom Sound samples.

date	03-Apr			17-Apr			01-May			21-May			29-May			04-Jun			12-Jun			17-Jun			04-Jul			12-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	5m	10m	15m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																													1	
Asterionella japonica																														
Asteromphalus sp.																														
Bacteriastrum sp.																1	1			1			1							
Biddulphia sp.																														
Campylosira/Plagiogramma																1														
Cerautalina sp.																														
Chaetoceros concavicorne														1																
Chaetoceros convolutus				1		1					1																			
Chaetoceros sp.				7	8	8				6	4	5	5	6	6		1	1	2	3	3	2	2	2	2			2	3	
Corethron hystrix																														
Coscinodiscus sp.	1		2																											
Cylindrotheca closterium					1																									
Dactylisolen sp.																												1		
Ditylum brightwellii																														
Eucampia zoodiacus																														
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata											1	1	1	1	1					1	1									1
Leptocylindrus danicus																														
Leptocylindrus minimus										1						1			1								1			1
Licmophora sp.																1														
Melosira sp.														1													1			
Navicula sp.				1						1	1	1	1	1	1	1					1	1	2	2		1				
Nitzschioid sp.													1							1										
Pleurosigma/ Gyrosigma sp.														1										1		1		1		1
Rhizosolenia setigera																														
Rhizosolenia sp. (pointy)				1	1	1							1	1	1			1			1					1				
Rhizosolenia sp. (blunt)						1																								
Rhizosolenia stolterfothii				1	1	1				1	1	1	1	1	1		1		1	1	1	1	1	1		1		1	1	1
Skeletonema costatum													1																1	
Stephanopyxis sp.										1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1		
Thalassionema sp.					1	1				1	1	1	1	1	1		1	1	1		1	1	2	1	1	1		2	1	1
Thalassiosira sp.	1	2	2	3	3	2	1	1	1	1	1	1	1	1	1		1	1	1		1	1								

Table 10 cont'd

date	18-Jul			24-Jul			14-Aug			27-Aug			04-Sep			08-Sep			15-Sep			22-Sep			29-Sep			06-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																				1			1	1							
Amphiproral Tropidoneis																				1										
Asterionella japonica																							1	1						
Asteromphalus sp.																														
Bacteriastrum sp.																														
Biddulphia sp.																														
Campylosira/Plagiogramma												1											1	1						
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus														2		4	2			3	2			3	3	3			1	2
Chaetoceros sp.		1	1	1	1		3	3		2	1																			
Corethron hystrix																				1					1		1			
Coscinodiscus sp.																							1			1				
Cylindrotheca closterium																														
Dactylisolen sp.																							1		1	1		1		
Ditylum brightwellii	1						1	1									1	1		1	1					1		1		
Eucampia zoodiacus								1																						
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus				1	1			1								1	1			1	1		1	1						
Leptocylindrus minimus							1													1			1							
Licmophora sp.	1		1																											
Melosira sp.																		1						1						
Navicula sp.		1																		1			1	1						
Nitzschioid sp.	1		1	1			1	1	1		1	1																		
Pleurosigma/ Gyrosigma sp.											1												1							
Rhizosolenia setigera		1	1	1	1			1																				1		
Rhizosolenia sp. (pointy)																				1	1		1	1						
Rhizosolenia sp. (blunt)																														
Rhizosolenia stolterfothii																				1	1			1	1	1	1	1	1	1
Skeletonema costatum	1	1	1	1			1	1	1	1	1	1	1	1	1	1	1	1												
Stephanopyxis sp.																				1	1			1	1		1			
Thalassionema sp.	1																			1	1		1	1	1	2	1	1	1	1
Thalassiosira sp.	1	1	1		1	1	1	1		1					1	2														

Table 10 cont'd

date	13-Oct			20-Oct			27-Oct			03-Nov			10-Nov			16-Nov			25-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																					
Achnanthes sp.																					
Amphiprora/ Tropidoneis																					
Asterionella japonica																					
Asteromphalus sp.																					
Bacteriastrum sp.											1	1									
Biddulphia sp.																					
Campylosira/Plagiogramma																					
Cerautalina sp.																					
Chaetoceros concavicorne																					
Chaetoceros convolutus																					
Chaetoceros sp.									1												
Corethron hystrix																					
Coscinodiscus sp.																				1	
Cylindrotheca closterium																					
Dactylisolen sp.											1										
Ditylum brightwelliii																					
Eucampia zoodiacus																					
Grammatophora sp.																					
Hemialus sp.																					
Lauderia annulata																					
Leptocylindrus danicus																					
Leptocylindrus minimus																					
Licmophora sp.												1									
Melosira sp.												2									
Navicula sp.											1	1									
Nitzschioid sp.											1										
Pleurosigma/ Gyrosigma sp.																					
Rhizosolenia setigera																					
Rhizosolenia sp. (pointy)											1										
Rhizosolenia sp. (blunt)																					
Rhizosolenia stolterfothii				1		1		1			1	1	1					1			
Skeletonema costatum												1									
Stephanopyxis sp.											1	1	1								
Thalassionema sp.										1	1	2	1								
Thalassiosira sp.	1				1	1															

Table 11 : Dinoflagellates in Simoom Sound samples.

date	03-Apr			17-Apr			01-May			21-May			29-May			04-Jun			12-Jun			17-Jun			04-Jul			12-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	5m	10m	15m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.																														
Ceratium divericatum																														
Ceratium furca											1	1					1		1				1			1			1	1
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																							1							
Ceratium sp.																						1			1	1	1	1	1	1
Cochlodinium polykrikoides																														
Cochlodinium sp.																										1		1	1	1
Dinophysioid sp.								1			1		1	1		2	1	1												
Diplopsalis sp.													1	1																
Gonyaulacoid sp.																														
Gymnodinioid sp.				1	3	3	2	1	2	7	8	4	5	7	4	4	6	4	4	3		5	5	1	6	5	2	2	2	1
Gymnodinium galatheanum																														
Gyrodinium spirale-type						1	1				2		2	1	1		1	1		1			1		1	2	1		1	1
Heterocapsa triquetra																			1			1			1		1	1	1	
Noctiluca scintillans													1	1		1			1	1			1					1		
Noctilucoid sp.																									1					
Oxyphysis oxytoxoides																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																									1			1	1	
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum minimum																														
Prorocentrum sp.																														
Protoperidinioid sp.	1	1		3	3	4		1		3	2		6	6	5	1	7	4	2	3		3	3	1	3	3		2	2	1
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 11 cont'd

date	18-Jul			24-Jul			14-Aug			27-Aug			04-Sep			08-Sep			15-Sep			22-Sep			29-Sep			06-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																							1							
Amphidinium sp.																														
Ceratium divericatum																														
Ceratium furca																	1													
Ceratium fusus		1	1		1	1		1			1																			
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.					1																							1		
Cochlodinium polykrikoides	1	1	1								1																			
Cochlodinium sp.														1			1			2					1	1				
Dinophysioid sp.	1							2		1	1																			
Diplopsalis sp.							1																		1					
Gonyaulacoid sp.							1																							
Gymnodinioid sp.	3	1	1	5	7	3	9	5	4	3	2	2	2	2		4	1			4	1		3	1	6	4	3	4	3	
Gymnodinium galatheanum																1	1			2					2	3				
Gyrodinium spirale-type					1		1	1	1														1							
Heterocapsa triquetra	1		1		1		1	1		1	1	1				1	1						1				1			
Noctiluca scintillans				1		1	1	1																						
Noctilucoid sp.																														
Oxyphysis oxytoxoides																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																1				1										
Prorocentrum gracile	1	1	1	1	1	1	1	1	1	1															1	1				
Prorocentrum micans																														
Prorocentrum minimum																														
Prorocentrum sp.							1																							
Protoperidinioid sp.				1			2	2		3	1			1		1	1			1			3		1		1			
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo							1			1	1	1				1							1	1		1				

Table 11 cont'd

date	13-Oct			20-Oct			27-Oct			03-Nov			10-Nov			16-Nov			25-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																					
Alexandrium sp.											1										
Amphidinium sp.																					
Ceratium divericatum																					
Ceratium furca																					
Ceratium fusus																					
Ceratium lineatum																					
Ceratium pentagonum																					
Ceratium sp.																					
Cochlodinium polykrikoides																					
Cochlodinium sp.																					
Dinophysioid sp.	1																				
Diplopsalis sp.								1													
Gonyaulacoid sp.																					
Gymnodinioid sp.	6	6	2	5	4	3	2	3		5	4	3	2	2	1	2		1	3	1	2
Gymnodinium galatheanum																					
Gyrodinium spirale-type	1	2			2		1		1		1	2									
Heterocapsa triquetra												1					1		1		
Noctiluca scintillans																					
Noctilucoid sp.																					
Oxyphysis oxytoxoides																					
Oxyrrhis marina																					
Oxytoxum sp.																					
Polykrikos sp.																					
Prorocentrum gracile																					
Prorocentrum micans																					
Prorocentrum minimum																					
Prorocentrum sp.				1																	
Protoperidinioid sp.	3				1		1		1		1	1									
Pyrocystis lunula																					
Raphidophytes																					
Heterosigma akashiwo																					

Table 12 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Simoom Sound samples.

date	03-Apr			17-Apr			01-May			21-May			29-May			04-Jun			12-Jun			17-Jun			04-Jul			12-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	5m	10m	15m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads													1			1							1			1		1		
Dictyocha speculum						1	1	1	1																					
Dinobryon balticum																1						1						1		
Ebria tripartita																														
Euglenoid																														
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	4	5	5	4	3	4	3	5	2	4	5	4	4	3	2	3	4	2	2	2	3	3	3	3	2	4	4	3	3	3
Zooplankton																														
Appendicularian							1																							
Ciliate	1	2	1	3	2	3	3	2	3	1	4		3	6	3	3	5	5	2	1	1	5	3		3	6	1	3	2	1
Copepod																			1		1									
Nauplius					1																									
Pluteus																											1			
Rotifer																						2								
Tintinnid					2			1				1	1																1	
Zoea																														
other																														
Dominant Species/Group																														
name	*Thalassiosira sp.*	*Thalassiosira spp.*	*Chaetoceros spp.*	*Thalassiosira nordenskioeld*	*Thalassiosira nordenskioeld*	*Thalassiosira nordenskioeld*	ciliates	dinoflagellates	ciliates	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Pseudonitzschia sp.*	*Skeletonema costatum*	*Gymnodinium spp.*	dinoflagellates	dinoflagellates	*Skeletonema costatum*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Skeletonema costatum*	*Nocticluca scintillans*	*Skeletonema costatum*	*Gymnodinium flavum*	*Cochlodinium polykrikoides*	dinoflagellates	*Skeletonema costatum*	*Cochlodinium polykrikoides*	*Cochlodinium polykrikoides*
count (cells/mL)	4	30	20	520	610	890	15	8	10	1500	2400	460	1000	2500	1800	50	110	70	200	200	130	1000	3	30	~20	~37	~6	~500	~130	~35
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	55	70	85	90	90	87	10	20	15	80	70	80	70	75	85	44	40	20	60	66	60	64	25	90	13	10	20	55	30	20
Dinoflagellates	20	10	0	5	4	8	25	40	20	18	27	18	20	15	11	50	50	60	35	30	30	20	60	5	80	80	50	35	65	75
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	10	5	5	1	1	1	15	10	30	1	1	1	1	1	1	3	1	1	2	2	5	4	5	5	1	1	5	5	2	3
Zooplankton	15	15	10	4	5	4	50	30	35	1	2	1	9	9	3	3	9	19	3	2	5	12	10	0	6	9	25	5	3	2
Biomass	1.0	2.0	1.5	3.5	3.5	3.5	1.0	1.0	1.0	3.5	4.0	2.5	3.0	3.5	3.0	2.5	2.5	2.0	2.5	2.5	2.0	2.5	2.5	1.5	2.0	3.0	1.0	3.0	3.0	2.5

Table 12 cont'd

date	18-Jul			24-Jul			14-Aug			27-Aug			04-Sep			08-Sep			15-Sep			22-Sep			29-Sep			06-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																	1						1		1	1		1	1	
Dictyocha speculum																														
Dinobryon balticum																								1						
Ebria tripartita																														
Euglenoid																														
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	4	4	3	4	4	2	5	4	3	3	4	3	3	3	1	4	1	4		3	1		7	4	4	2	2	4	4	2
Zooplankton																														
Appendicularian																														
Ciliate	1	2		1	2	1	6	3	2	2	3	1	1		1	2		1			1		3	1	4	5	1	4	3	2
Copepod					1				1		1																			
Nauplius		1																			1						1			
Pluteus																														
Rotifer																	1													
Tintinnid							1			1																				
Zoea													1																	
other								1																						
Dominant Species/Group																														
name	*Skeletonema costatum*	*Prorocentrum gracile*	*Cochlodinium polykrikoides*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Noctiluca scintillans*	*Skeletonema costatum*	*Ceratium fusus*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Eucampia zoodiacus*	no sample	*Eucampia zoodiacus*	*Eucampia zoodiacus*	no sample	*Leptocylindrus danicus*	*Leptocylindrus danicus*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Thalassiosira sp.*	*Thalassiosira sp.*	*Skeletonema costatum*
count (cells/mL)	~200	~90	~30	~90	~40	~3	~600	~30	~130	4,000	~200	~80	~380	1070	~60	3130	~95	~3		~190	~510		~150	~40	2900	5850	~740	~20	~15	~280
	100	100	100	100	100	100	100	100	100	100	100	100	100	101	100	100	95	100	100	100	100	100	100	100	100	100	100	100	100	100
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	101	100	100	95	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	55	28	30	35	20	10	75	35	65	49	45	50	90	95	95	70	50	60	63.3	90	95	56.7	80	95	50	70	70	80	85	95
Dinoflagellates	39	65	65	50	60	70	13	58	30	40	35	33	4	5	0	28	42	0	25.3	9	1	22.7	11	1	20	10	24	10	5	0
Raphidophytes	0	0	0	0	0	0	1	0	0	4	5	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
Other Flagellates	5	3	5	2	2	5	1	2	1	5	10	14	1	1	1	1	1	30	7.34	1	1	13.7	3	2	20	10	1	5	5	2
Zooplankton	1	4	0	13	18	15	10	5	4	2	5	2	5	0	4	1	2	10	4	0	3	7	5	1	10	10	5	5	5	3
Biomass	3.0	3.0	2.5	2.5	2.5	1.5	2.5	3.5	1.5	4.0	3.0	2.0	2.0	3.0	1.0	3.0	2.0	1.0	3.0	3.0	3.5	3.0	3.0	2.0	3.0	3.5	3.0	2.0	1.5	2.0

Table 12 cont'd

date	13-Oct			20-Oct			27-Oct			03-Nov			10-Nov			16-Nov			25-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																					
Cryptomonads									1		1	1							1		
Dictyocha speculum																					
Dinobryon balticum																					
Ebria tripartita																					
Euglenoid																					
Phaeocystis pouchetii																					
Radiolarian																					
unid. Nanoflagellates	3	3	2	3	2	1	4	5	1	3	3	3	3	3	3	2	3	2	2	3	2
Zooplankton																					
Appendicularian																				3	
Ciliate	7	4	1		1		3	2	2	1	1	1	1			1					
Copepod						1								1							
Nauplius																					
Pluteus																					
Rotifer											1										
Tintinnid																					
Zoea																					
other		1	1																		
Dominant Species/Group																					
name	dinoflagellates	dinoflagellates	dinoflagellates	gymnodinioid dinoflagellates	gymnodinioid dinoflagellates	*Thalassiosira* sp.	ciliates	gymnodinioid dinoflagellates	ciliates	dinoflagellates	*Thalassionema nitzschioides*	*Bidduiphia aurita*	diatoms	gymnodinioid dinoflagellates	gymnodinioid dinoflagellates	ciliate	*Noctiluca scintillans*	*Skeletonema costatum*	dinoflagellates	ciliates	dinoflagellates
count (cells/mL)	~50	~20	~4	~20	~20	~3	~6	~5	~3	~8	~50	~8	~8	~2	~1	~1	~1	~34	~4	~4	~3
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	0	10	0	15	3	60	0	10	20	10	75	70	65	0	0	0	0	85	0	5	0
Dinoflagellates	60	50	60	80	90	18	58	60	20	70	15	22	15	40	50	35	95	14	55	5	95
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	5	5	10	5	5	2	2	2	20	10	5	5	5	5	50	30	5	1	45	5	5
Zooplankton	35	35	30	0	2	20	40	28	40	10	5	3	15	55	0	35	0	0	0	85	0
Biomass	2.0	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Table 13 : Diatoms in Viner Sound samples.

date	06-Mar			13-Mar			19-Mar			28-Mar			03-Apr			10-Apr			17-Apr			24-Apr			01-May			08-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis									1																					
Asterionella japonica																														
Bacteriastrum sp.																														
Biddulphia sp.																														
Campylosira/Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne													1																	
Chaetoceros convolutus				1	1			1																						
Chaetoceros sp.	2	1	2		1	1	1	3	2	2	2	2	7	10	8	6	8	5	4	4	3	4	5	4						
Corethron hystrix														1			1	1												
Coscinodiscus sp.													1				1						1							1
Cylindrotheca closterium																														
Dactylisolen sp.																														
Detonula pumila																														
Dityium brightwellii																														
Eucampia zoodiacus																														
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																				1										
Leptocylindrus danicus				1																										
Leptocylindrus minimus			1																											
Licmophora sp.										1						1														
Melosira sp.													1			1	1			1									1	
Navicula sp.			1			1							1						1		1	1								1
Nitzschioid sp.																														
Pleurosigma/ Gyrosigma sp.	1																													
Rhizosolenia setigera																														
Rhizosolenia sp. (pointy)													1	1	1															
Rhizosolenia sp. (blunt)		1						1					1					1												
Rhizosolenia stolterfothii	1	1	1	1		1	1	1	1	1		1		1		1	1	1	1	1	1	1		1						
Skeletonema costatum																			1		1									
Stephanopyxis sp.								1		1																				
Thalassionema sp.	2	1	1	1	2	2	2	2	2	2	2	2	3	4	2	2	2	2	2	2	2	2	2	2		1	1		1	1
Thalassiosira sp.																														

Table 13 cont'd

date	15-May			22-May			29-May			05-Jun			13-Jun			19-Jun			27-Jun			03-Jul			10-Jul			17-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.													1																	
Amphiprora/ Tropidoneis																									1					
Asterionella japonica																														
Bacteriastrum sp.																														
Biddulphia sp.																														
Campylosira/Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne																	1						1							
Chaetoceros convolutus									1																					
Chaetoceros sp.	1	1		5	7	6	5	3	4	9	8	7	4	5	6	3	7	8	5	5	2	3	4	2	2	3	1	1	3	
Corethron hystrix																										1				
Coscinodiscus sp.																						1	1		1					
Cylindrotheca closterium			1																											
Dactylisolen sp.																														
Detonula pumila																			1			1			1	1		1		
Ditylum brightwellii																														
Eucampia zoodiacus						1																								
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus					1			1		1	1	1	1	1	1		1	1	1	1	1		1		1			1		
Leptocylindrus minimus																														
Licmophora sp.																	1													
Melosira sp.										1					1															
Navicula sp.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1		1	1	1	1	1	
Nitzschioid sp.														1																
Pleurosigma/ Gyrosigma sp.																						1			1	1		1		
Rhizosolenia setigera																														
Rhizosolenia sp. (pointy)																									1			1		
Rhizosolenia sp. (blunt)						1	1			1	1	1	1		1															
Rhizosolenia stolterfothii																														
Skeletonema costatum	1			1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Stephanopyxis sp.						1				1																				
Thalassionema sp.				1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Thalassiosira sp.	2	2	1	2	2	2	1	2	2	2	2	2	1	2	1	1	1	2	2	1	1	1	2	2	2	2	2	2	1	1

Table 13 cont'd

date	24-Jul			31-Jul			07-Aug			14-Aug			20-Aug			28-Aug			05-Sep			11-Sep			18-Sep			25-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis										1						1									1	1				
Asterionella japonica																														
Bacteriastrum sp.					1																									
Biddulphia sp.																														
Campylosiral Plagiogramma													1																	
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus																														
Chaetoceros sp.	2	4	4	2	2	1	1	1	1	3	1	1	4	6	7	2	1		3	2	2	2	3	1	3	4	3	1		1
Corethron hystrix													1																	
Coscinodiscus sp.		1																												
Cylindrotheca closterium		1		1																										
Dactylisolen sp.																														
Detonula pumila																														
Ditylum brightwellii	1	1	1				1	1		1	1	1	1	1	1					1			1		1					
Eucampia zoodiacus							1			1			1		1															
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata										1																				
Leptocylindrus danicus	1	1	1	1	1																									
Leptocylindrus minimus																														
Licmophora sp.																														
Melosira sp.										1			1	1	1					1										
Navicula sp.																														
Nitzschioid sp.	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1			1						1		1			
Pleurosigma/ Gyrosigma sp.																1														
Rhizosolenia setigera																														
Rhizosolenia sp. (pointy)													1									1								
Rhizosolenia sp. (blunt)		1		1			1	1	1																					
Rhizosolenia stolterfothii													1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1
Skeletonema costatum	1	1	1	1			1	1	1	1																				
Stephanopyxis sp.																1														
Thalassionema sp.		1	1	1															2	1	1	1	1	1	1	2	1			
Thalassiosira sp.	2	2	2	1	1		1	2	1	2	2	1	3	3	2	1														

Table 13 cont'd

date	01-Oct			09-Oct			16-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms									
Achnanthes sp.									
Amphiprora/ Tropidoneis									
Asterionella japonica						1			
Bacteriastrum sp.									
Biddulphia sp.									
Campylosira/Plagiogramma									
Cerautalina sp.									
Chaetoceros concavicorne									
Chaetoceros convolutus									
Chaetoceros sp.	3	2	2	2	5	2	1	1	1
Corethron hystrix									
Coscinodiscus sp.									
Cylindrotheca closterium									
Dactylisolen sp.									
Detonula pumila									
Ditylum brightwellii	1			1	1		1		
Eucampia zoodiacus									
Grammatophora sp.									
Hemialus sp.									
Lauderia annulata									
Leptocylindrus danicus	1								
Leptocylindrus minimus									
Licmophora sp.									
Melosira sp.									
Navicula sp.	1								
Nitzschioid sp.						1			
Pleurosigma/ Gyrosigma sp.									
Rhizosolenia setigera									
Rhizosolenia sp. (pointy)									
Rhizosolenia sp. (blunt)									
Rhizosolenia stolterfothii									
Skeletonema costatum	1	1	1	1	1	1	1		1
Stephanopyxis sp.									
Thalassionema sp.						1			
Thalassiosira sp.	2	2		1	2	2	1	1	1

Table 14 : Dinoflagellates in Viner Sound samples.

date	06-Mar			13-Mar			19-Mar			28-Mar			03-Apr			10-Apr			17-Apr			24-Apr			01-May			08-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.																														
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium sp.																														
Cochlodinium sp.																														
Cochlodinium polykrikoides																												1		
Dinophysioid sp.																														
Diplopsalis sp.																														
Gonyaulacoid sp.																												2	1	1
Gymnodinioid sp.	1				1			1	1	2	1	1	2	3		3	1	2	2	1	1	1	1							
Gymnodinium galatheanum													1	1														1		
Gyrodinium spirale-type			1																											
Heterocapsa triquetra																														
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyphysis oxytoxoides																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum minimum																														
Prorocentrum sp.																1		1			1	1		1						
Protoperidinioid sp.																														
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 14 cont'd

date	15-May			22-May			29-May			05-Jun			13-Jun			19-Jun			27-Jun			03-Jul			10-Jul			17-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.										1								1												
Amphidinium sp.																														
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium sp.																														
Cochlodinium sp.																														
Cochlodinium polykrikoides																				1			1			1				
Dinophysioid sp.			1			1																								
Diplopsalis sp.										1																				
Gonyaulacoid sp.																														
Gymnodinioid sp.		1	1	5	3	5	2	4	4	5	2	4		2	3	2	3	1	2	2	2	3	2	1	3	1	1	2	1	1
Gymnodinium galatheanum																														
Gyrodinium spirale-type								1																						
Heterocapsa triquetra													1	1		1			1		1	1			1			1		
Noctiluca scintillans													1	1					1			1	1							
Noctilucoid sp.																						1								
Oxyphysis oxytoxoides																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.										1												1			1			1		
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum minimum																														
Prorocentrum sp.																														
Protoperidinioid sp.				3	3	1	2	1	1	7	1	2	2	3	1		2	2	1			1	1		2	2		1		
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 14 cont'd

date	24-Jul			31-Jul			07-Aug			14-Aug			20-Aug			28-Aug			05-Sep			11-Sep			18-Sep			25-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.																														
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium sp.																														
Cochlodinium sp.																														
Cochlodinium polykrikoides	1	1																		1									1	
Dinophysioid sp.	2	1					1	1					1																	
Diplopsalis sp.												1																		
Gonyaulacoid sp.				1																										
Gymnodinioid sp.	5	3	2	4	3	1	6	2	1	1	2				1	2	1	1	3	1		3	1	1	1		1	5	2	
Gymnodinium galatheanum															1		1													
Gyrodinium spirale-type					1		1												1											
Heterocapsa triquetra	1	1	1	1	1		1			1																				
Noctiluca scintillans	1	1	1	1	1		1																							
Noctilucoid sp.																						1								
Oxyphysis oxytoxoides																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile	1	1	1	1	1	1	1	1		1					1															
Prorocentrum micans																										1			1	
Prorocentrum minimum																														
Prorocentrum sp.																														1
Protoperidinioid sp.	5	5	2	3	1	1	1	1	1				1			3			1	4	1		1		2					
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 14 cont'd

date	01-Oct			09-Oct			16-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates									
Alexandrium sp.									
Amphidinium sp.									
Ceratium divericatum									
Ceratium furca									
Ceratium fusus									
Ceratium lineatum									
Ceratium sp.									
Cochlodinium sp.									
Cochlodinium polykrikoides									
Dinophysioid sp.									
Diplopsalis sp.									
Gonyaulacoid sp.									
Gymnodinioid sp.	1	3	1	3	4	1	1	1	2
Gymnodinium galatheanum									
Gyrodinium spirale-type		1	1						
Heterocapsa triquetra									
Noctiluca scintillans									
Noctilucoid sp.									
Oxyphysis oxytoxoides									
Oxyrrhis marina									
Oxytoxum sp.									
Polykrikos sp.									
Prorocentrum gracile									
Prorocentrum micans									
Prorocentrum minimum									
Prorocentrum sp.									
Protoperidinioid sp.		1							
Pyrocystis lunula									
Raphidophytes									
Heterosigma akashiwo									

Table 15 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Viner Sound samples.

date	06-Mar			13-Mar			19-Mar			28-Mar			03-Apr			10-Apr			17-Apr			24-Apr			01-May			08-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																									1			1		
Dictyocha speculum																														
Dinobryon balticum																														
Ebria tripartita																														
Euglenoid				1																										
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	5	4	5	4	4	4	5	5	3	6	6	4	2	2	2	7	6	1	4	3	4	3	2	2	4	3	4	3	5	4
Zooplankton																														
Appendicularian																														
Ciliate	1	1	2				2	1	1	1	1	1	4	3					3	2	2	2	1	1	1	1	2	3	2	3
Copepod												1																		1
Nauplius																														
Pluteus																														
Rotifer																1														
Tintinnid																														
Zoea																						1								
other													1																	
Dominant Species/Group																														
name	*Skeletonema costatum*	*Chaetoceros debilis*	*Skeletonema costatum*	*Leptocylindrus danicus*	*Chaetoceros debilis*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros debilis*	*Chaetoceros debilis*	*Chaetoceros debilis*	*Chaetoceros debilis*	*Chaetoceros debilis*	*Chaetoceros debilis*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Dictyocha speculum*	*Thalassiosira sp.*	ciliates	dinoflagellates	ciliates	*Pseudonitzschia sp.*
count (cells/mL)	~60	~70	~50	~15	~30	~60	~80	~380	~130	~65	~200	~75	7800	4800	2500	~250	~750	~650	~250	~320	~80	~330	~440	~300	~2	~5	~3	~6	~5	~160
% constituent	100	100	100	100	106	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	85	90	80	85	80	90	85	90	85	75	80	75	94	94	99	70	85	90	92	95	88	93	95	95	0	60	30	0	20	75
Dinoflagellates	5	0	5	0	10	0	0	5	10	10	5	5	2	2	0	8	5	5	3	2	5	2	2	2	0	0	0	45	10	5
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	5	5	5	15	16	10	5	2	2	5	5	5	1	1	1	2	1	1	1	1	2	1	1	1	60	20	30	20	20	5
Zooplankton	5	5	10	0	0	0	10	3	3	10	10	15	3	3	0	20	9	4	4	2	5	4	2	2	40	20	40	35	50	15
Biomass	3.0	2.5	2.5	1.5	2.0	2.5	2.5	3.0	3.0	2.5	3.0	2.5	4.0	4.0	3.5	3.0	3.5	3.5	3.0	3.0	2.5	3.0	3.0	3.0	1.0	1.0	1.0	1.0	1.0	2.0

Table 15 cont'd

date	15-May			22-May			29-May			05-Jun			13-Jun			19-Jun			27-Jun			03-Jul			10-Jul			17-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																	1				1		1	1	1	1	1			
Dictyocha speculum	1				1																									
Dinobryon balticum																			1			1								
Ebria tripartita													1		1										1					
Euglenoid																														
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	3	3	4	5	5	3	3	3	3	3	3	3	3	3	2	3	3	3	2	2	2	3	3	2	2	3	2	2	3	3
Zooplankton																							1							
Appendicularian																						1	3	1	1	1	1	2	2	
Ciliate	3	2	1	3	2	3	2	1	3	3	1		1	3	1	1	3	1												
Copepod	1				1							1					1		1			1						1		
Nauplius		1																												
Pluteus										1																				
Rotifer																							1							
Tintinnid																														
Zoea																														
other									1																					
Dominant Species/Group																														
name	*Pseudonitzschia sp.*	ciliates	dinoflagellates	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Thalassionema sp.*	*Skeletonema costatum*	*Chaetoceros spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Chaetoceros spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Thalassionema nitzschioide*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*
count (cells/mL)	~680	~10	~4	16000	12000	13000	5800	3400	1000	4000	1500	~800	~600	~700	4200	~500	~700	1200	~900	~500	~200	1000	~900	~30	2600	~600	~100	1400	~200	~250
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	50	30	20	90	90	88	85	80	80	85	95	93	85	80	86	86	80	91	80	90	85	85	85	90	85	85	87	80	90	95
Dinoflagellates	15	10	65	7	7	9	10	16	13	10	3	5	10	14	10	10	10	5	16	8	13	11	5	5	10	10	3	14	3	2
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	3	5	5	1	1	1	2	2	2	1	1	1	3	2	2	2	5	2	3	2	2	3	4	3	3	3	5	2	2	3
Zooplankton	32	55	10	2	2	2	3	2	5	4	1	1	2	4	2	2	5	2	1	0	0	2	6	2	2	2	5	4	5	0
Biomass	2.5	1.5	1.0	4.5	4.5	4.0	3.5	3.5	3.0	4.0	3.5	3.0	3.5	4.0	4.0	3.0	4.0	3.5	3.5	3.0	2.0	3.5	3.5	2.0	3.5	3.0	2.0	3.5	2.5	2.5

Table 15 cont'd

date	24-Jul			31-Jul			07-Aug			14-Aug			20-Aug			28-Aug			05-Sep			11-Sep			18-Sep			25-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																												1		
Dictyocha speculum							1		1					1	1	1														
Dinobryon balticum																														
Ebria tripartita					1																									
Euglenoid				1																										
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	4	2	2	5	3	3	3	2	3	3	3	2	3	1	3	2	2	2	3	2	1	3	3	3	1	1		3	1	1
Zooplankton																														
Appendicularian		1																												
Ciliate		1		2	2	2	2	3	1	1	1			2		1	1		2	2				1	2	1		4		2
Copepod					1																									
Nauplius																														
Pluteus																			1											
Rotifer																				1										
Tintinnid	1	1		1	1																									
Zoea														1																
other																														
Dominant Species/Group																														
name	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Prorocentrum gracile*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	dinoflagellates	dinoflagellates	*Chaetoceros debilis*
count (cells/mL)	5200	4700	4200	~470	~50	~20	~170	~80	~40	2500	~920	~320	6400	3200	3000	8,000	~100	~250	23000	14000	3000	5500	8800	2300	~600	~700	~600	~25	~4	~30
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	60	70	85	30	55	55	60	75	80	93	95	97	98	96	97	92	80	90	97	97	98	97	97	98	90	95	99	5	2	55
Dinoflagellates	36	27	14	60	32	30	35	20	10	5	3	2	1	1	2	5	10	5	1	1	1	2	2	1	5	0	1	60	93	34
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	3	2	1	5	5	5	2	2	5	1	1	1	1	1	1	2	5	5	1	1	1	1	1	1	1	1	0	5	5	1
Zooplankton	1	1	0	5	8	10	3	3	5	1	1	0	0	2	0	1	5	0	1	1	0	0	0	0	4	4	0	30	0	10
Biomass	4.0	4.0	3.5	3.5	2.5	1.5	2.0	2.0	1.5	3.0	2.5	2.0	3.5	3.5	3.5	4.0	2.0	2.0	4.5	4.0	3.0	3.5	3.5	2.0	3.0	2.5	2.5	1.5	1.0	1.0

Table 15 cont'd

date	01-Oct			09-Oct			16-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates									
Cryptomonads									
Dictyocha speculum									
Dinobryon balticum									
Ebria tripartita		1							
Euglenoid									
Phaeocystis pouchetii									
Radiolarian									
unid. Nanoflagellates	2	1	2	3	2	2	3	2	2
Zooplankton									
Appendicularian									
Ciliate		1	1	2			2	1	1
Copepod									
Nauplius	1								
Pluteus									
Rotifer									
Tintinnid		1		1					
Zoea									
other									
Dominant Species/Group									
name	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Thalassiosira sp.*	*Chaetoceros spp.*	*Skeletonema costatum*	diatoms	diatoms	diatoms
count (cells/mL)	7200	7200	~700	~30	~180	1400	~20	~5	~50
% constituent	100	100	100	100	100	100	100	100	100
Diatoms	97	95	90	70	95	97	50	60	70
Dinoflagellates	1	3	5	13	4	1	10	10	15
Raphidophytes	0	0	0	0	0	0	0	0	0
Other Flagellates	1	1	1	2	1	2	20	20	5
Zooplankton	1	1	4	15	0	0	20	10	10
Biomass	4.0	4.0	2.5	1.5	2.0	2.0	1.0	1.0	1.5

Table 16 : Diatoms in Warren Islands samples.

date	05-Mar			12-Mar			19-Mar			26-Mar			02-Apr			09-Apr			16-Apr			23-Apr			30-Apr			07-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.																														
Biddulphia sp.																														
Campylosira/Plagiogramma																														
Cerautalina sp.																			1	1	1			1						
Chaetoceros concavicorne																			1	1	1	1	1	1	1	1	1	1	1	1
Chaetoceros convolutus								1			1								2	2	2	3	2	2	4	4	3	5	5	5
Chaetoceros sp.																			1		1	1	1	1	1	1			1	1
Corethron hystrix																														
Coscinodiscus sp.																				1						1				
Cylindrotheca closterium																														
Dactylisolen sp.																														
Detonula pumila																														
Ditylum brightwellii																														
Eucampia zoodiacus																														
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																								1	1	1			1	1
Leptocylindrus danicus																														
Leptocylindrus minimus		1	1																											
Licmophora sp.													1				1													
Melosira sp.																													1	
Navicula sp.																			1	1	1	1	1	1	1	1	1	1	1	1
Nitzschioid sp.		1	1				1	1		1														1	1			1	1	
Pleurosigma/ Gyrosigma sp.																														
Rhizosolenia setigera																														
Rhizosolenia sp. (pointy)																			1							1		1	1	1
Rhizosolenia sp. (blunt)																														1
Rhizosolenia stolterfothii																			1					1	1	1	1	1	1	1
Skeletonema costatum		1																												
Stephanopyxis sp.																												1		1
Thalassionema sp.									1	2	2	1	1		1	1	1	1	1	1	2	2	2	2	1	1	2	2	1	2
Thalassiosira sp.																														

Table 16 cont'd

date	14-May			21-May			28-May			04-Jun			11-Jun			18-Jun			25-Jun			02-Jul			09-Jul			16-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																											1		1	1
Asterionella japonica																														
Bacteriastrum sp.																		1												
Biddulphia sp.																														
Campylosiral Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne													1																	
Chaetoceros convolutus	1	1	1		1																									
Chaetoceros sp.	6	7	5	6	5	5	2	4	2	7	5	7	6	5	6	3	5	4	3	3	3	3	2	6	4	5	2	3	5	4
Corethron hystrix	1	1	1		1	1																					1	1		
Coscinodiscus sp.																		1						1	1				1	
Cylindrotheca closterium	1																													
Dactylisolen sp.																														
Detonula pumila									1						1				1				1		1	1	1	1	1	1
Ditylum brightwellii							1																1							
Eucampia zoodiacus																														
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																				1	1		1	1	1	1	1	1	1	1
Leptocylindrus danicus	1	1		1	1	1	1	1		1	1	1	1	1	1	1	1	1												
Leptocylindrus minimus																														
Licmophora sp.																														
Melosira sp.					1					1		1																		
Navicula sp.			1							1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1
Nitzschioid sp.	1	1	1	1	1	1	1	1	1	1	1	1	1							1	1									
Pleurosigma/ Gyrosigma sp.					1											1													1	1
Rhizosolenia setigera																														
Rhizosolenia sp. (pointy)										1	1		1	1	1	1		1					1	1			1		1	
Rhizosolenia sp. (blunt)	1	1	1														1	1		1								1		
Rhizosolenia stolterfothii		1				1		1					1				1		1			1	1	1	1	1	1	1	1	1
Skeletonema costatum	1	1	1	1	1	1	1																							
Stephanopyxis sp.					1					1																				
Thalassionema sp.	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Thalassiosira sp.	2	2	2	1	2	1	1	1	1	2	3	1	1	2	2	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2

Table 16 cont'd

date	23-Jul			30-Jul			06-Aug			13-Aug			20-Aug			27-Aug			03-Sep			10-Sep			24-Sep			08-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.						1		1	1																					
Amphiproral Tropidoneis																														
Asterionella japonica	1	1			1	1	1	1	1	1	1	1	1	1	1															
Bacteriastrum sp.							1	1	2																					
Biddulphia sp.																											1			
Campylosira/Plagiogramma														1														1	1	1
Cerautalina sp.																												1	1	1
Chaetoceros concavicorne							*5	*3	*6		1														1	1	1	1	1	
Chaetoceros convolutus	7	7	3	3	4	4	10	9	9	2	5	3	4	5	5														1	
Chaetoceros sp.									*1																					
Corethron hystrix								1	1	1			1																	
Coscinodiscus sp.											1			1																
Cylindrotheca closterium	1	1	1				1	1	1																					
Dactyliosolen sp.									1																					
Detonula pumila				1																										
Ditylum brightwellii	1	1	1	1	1	1	1	1	1	1	1	1	1	1																
Eucampia zoodiacus							1	1																						
Grammatophora sp.																														
Hemialus sp.								1																						
Lauderia annulata											1	1		1																
Leptocylindrus danicus	1	1		1	1	1		1	1		1																			
Leptocylindrus minimus									1																					
Licmophora sp.							1	1	1					1							1									
Melosira sp.							1		1		1	1	1	1																
Navicula sp.		1								1	2	1	1	1	1															
Nitzschioid sp.	1	1	1	1	1	1	1	1	1		1																			
Pleurosigma/ Gyrosigma sp.															1															
Rhizosolenia setigera	1			1	1		*40	*30	*30	1	1																			
Rhizosolenia sp. (pointy)																										1				
Rhizosolenia sp. (blunt)	1	1					1	1	1	1	1																			
Rhizosolenia stolterfothii	1	1							1																1	1	1		1	
Skeletonema costatum	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			1			1									
Stephanopyxis sp.												1							1											
Thalassionema sp.		1		1		1	1	1	1				3	3	2							1	1	1		2	2	1	1	
Thalassiosira sp.	1	2	1	2	2	2	3	3	3	2	2	1																		

Table 17 : Dinoflagellates in Warren Islands samples.

date	05-Mar			12-Mar			19-Mar			26-Mar			02-Apr			09-Apr			16-Apr			23-Apr			30-Apr			07-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																													1	
Amphidinium sp.																														
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium sp.																														
Cochlodinium polykrikoides																								1						
Dinophysioid sp.																														
Diplopsalis sp.																														
Gonyaulacoid sp.																														
Gymnodinioid sp.	2	1	1				1			1				1	1	3		1	5	5	3	5	5	4	3	2	1	5	5	5
Gymnodinium galatheanum																			1			1	1			1				
Gyrodinium spirale-type																														
Heterocapsa triquetra																														
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile																								1						
Prorocentrum micans																														
Prorocentrum minimum																														
Prorocentrum sp.																1					1			1			1	1	2	1
Protoperidinioid sp.																														
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 17 cont'd

date	14-May			21-May			28-May			04-Jun			11-Jun			18-Jun			25-Jun			02-Jul			09-Jul			16-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.																														
Ceratium divericatum																														
Ceratium furca																													1	
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium sp.																														
Cochlodinium polykrikoides																										1		1		
Dinophysioid sp.																														
Diplopsalis sp.																				1										
Gonyaulacoid sp.																														
Gymnodinioid sp.	7	6	4	4	2	3	4	5	5	3	3	3	3	2	1	2	2	1	1	3		1	3	2	2	2	2		2	2
Gymnodinium galatheanum																				1			1						1	1
Gyrodinium spirale-type					1			1			1		1	1		1	1	1		1		1			1	1			1	
Heterocapsa triquetra										1																				
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum minimum																														
Prorocentrum sp.																														
Protoperidinioid sp.	1	3	1		2	1	2	3	2	2	2	1	4	2	1	2	1	3		2		1	2	1	2	2	1	2	2	1
Pyrocystis lunula																										1			1	
Raphidophytes																														
Heterosigma akashiwo																														

Table 17 cont'd

date	23-Jul			30-Jul			06-Aug			13-Aug			20-Aug			27-Aug			03-Sep			10-Sep			24-Sep			08-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.					1																									
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus							1		1																					
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.									1																					
Cochlodinium sp.																														
Cochlodinium polykrikoides																														
Dinophysioid sp.	1						3	2	2																					
Diplopsalis sp.									1																					
Gonyaulacoid sp.								1						1																
Gymnodinioid sp.	5	4	1	1	1	1	4	3	4	3	2	1		4	3		1			1	1	2	1	1	3	2		2	1	1
Gymnodinium galatheanum																								1						
Gyrodinium spirale-type	2	1					1	2			1																			
Heterocapsa triquetra										1	1																			
Noctiluca scintillans							*3	*5	*7																					
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum minimum																														
Prorocentrum sp.	1																								1	1				1
Protoperidinioid sp.	2	1			1		7	4	5	2	1	2		2																
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 18 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Warren Islands samples.

date	05-Mar			12-Mar			19-Mar			26-Mar			02-Apr			09-Apr			16-Apr			23-Apr			30-Apr			07-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																									1					
Dictyocha speculum				1																										
Dinobryon balticum																														
Ebria tripartita																								1						
Euglenoid																														
Phaeocystis pouchetii																														
unid. Nanoflagellates	5	5	3	3	4	4	5	5	4	6	4	6	5	5	5	3	2	3	3	5	3	3	4	3	4	3	4	4	3	4
Zooplankton																														
Amoebae																														
Appendicularian																														
Ciliate	1	1		1	2	1	3	3	2	2	3	2	2	2	1	1	2	2	3	5	3	4	4	2	1	2	1	1	1	2
Copepod																										1				
Nauplius																														
Pluteus																														
Radiolarian																														
Rotifer																												1		
Tintinnid																														
Zoea																														
other																														
Dominant Species/Group																														
name	dinoflagellates	diatoms	diatoms	*Dictyocha speculum*	ciliates	ciliates	*Nitzschia sp.*	ciliates	*Thalassiosira sp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira sp.*	ciliates	ciliates	*Thalassiosira sp.*	*Thalassiosira sp.*	*Thalassiosira sp.*	*Thalassiosira sp.*	*Chaetoceros concavicorne*	*Chaetoceros concavicorne*	*Chaetoceros concavicorne*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*
count (cells/mL)	~2	~5	~2	~2	~4	~2	~10	~12	~5	~10	~10	~3	~5	~5	~3	~2	~4	~2	~172	~77	~78	~80	~100	~400	2500	1800	~500	6200	9000	7300
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	0	50	35	0	0	0	40	40	50	55	60	50	30	0	40	35	70	40	85	80	90	75	78	85	90	90	83	90	87	90
Dinoflagellates	40	15	20	0	0	0	10	0	0	10	0	0	0	20	15	40	0	15	10	14	5	15	12	10	7	6	10	7	10	7
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	30	20	45	75	35	40	20	10	30	5	5	15	15	15	15	10	8	5	1	1	1	1	2	2	1	1	2	1	1	1
Zooplankton	30	15	0	25	65	60	30	50	20	30	35	35	55	65	30	15	22	40	4	5	4	9	8	3	2	3	5	2	2	2
Biomass	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.0	1.0	1.0	1.0	1.5	1.5	1.5	3.5	3.0	3.0	3.0	3.0	3.5	3.5	3.0	2.5	3.5	4.0	4.0

Table 18 cont'd

date	14-May			21-May			28-May			04-Jun			11-Jun			18-Jun			25-Jun			02-Jul			09-Jul			16-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads													1	1			1	1				1	1	1	1	1	1	1	1	1
Dictyocha speculum			1																											
Dinobryon balticum																													1	
Ebria tripartita							1						1	1																
Euglenoid																														
Phaeocystis pouchetii																														
unid. Nanoflagellates	3	3	3	4	5	3	3	3	3	3	2	2	3	2	2	2	2	3	2	2	3	2	2	5	2	3	4	1	2	2
Zooplankton																														
Amoebae																														
Appendicularian																				2		1	3	1	1	1	2	1	1	
Ciliate	3	3	1	3	1	1	3	3	1	2	2	3	1	2	1	2	2	2							1					
Copepod					1		1									1	1	1						1						
Nauplius																														
Pluteus																														
Radiolarian																														
Rotifer																										1				
Tintinnid	1		1	1			2	1	1																					
Zoea																														
other			1																											
Dominant Species/Group																														
name	*Pseudontzschia sp.*	*Pseudontzschia sp.*	*Pseudontzschia sp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Leptocylindrus danicus*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Thalassionema nitzschioide*	*Thalassionema nitzschioide*	*Thalassionema nitzschioide*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Thalassionema nitzschioide*	*Thalassionema nitzschioide*	*Thalassionema nitzschioide*	*Skeletonema costatum*	*Skeletonema costatum*	*Thalassiosira spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*
count (cells/mL)	5400	7500	5300	2800	2500	2600	~110	~200	~50	1100	1200	~300	4000	1900	~800	~560	~430	~450	~700	2400	~600	~150	~500	~550	~540	~300	~100	~780	~400	~700
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	80	75	80	90	90	90	40	50	45	86	90	87	80	85	90	75	83	75	97	75	97	87	70	70	85	80	85	92	80	90
Dinoflagellates	15	20	14	7	8	8	25	30	35	10	7	8	17	11	8	15	10	15	2	20	0	8	12	5	11	15	8	5	13	7
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	2	2	3	1	1	1	10	6	10	1	1	1	2	2	1	2	3	5	1	2	3	3	10	23	2	3	5	2	5	3
Zooplankton	3	3	3	2	1	1	25	14	10	3	2	4	1	2	1	8	4	5	0	3	0	2	8	2	2	2	2	1	2	0
Biomass	3.5	3.5	3.5	3.5	3.5	3.5	3.0	3.0	2.5	3.0	3.5	2.0	4.0	3.5	3.0	3.0	3.5	3.5	2.5	3.0	2.0	3.0	3.5	3.0	3.5	3.0	2.0	3.5	3.5	3.5

Table 18 cont'd

date	23-Jul			30-Jul			06-Aug			13-Aug			20-Aug			27-Aug			03-Sep			10-Sep			24-Sep			08-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads														1	1				1									1	1	
Dictyocha speculum	1		1				*1		*20																					
Dinobryon balticum																										1				
Ebria tripartita																														
Euglenoid																														
Phaeocystis pouchetii																														
unid. Nanoflagellates	1	3	1	2	2	3	3	4	4	2	4	3	2	3	4	2	1	0	3	2	2	2	2	1	1	1	1	4	2	3
Zooplankton																					1									
Amoebae																														
Appendicularian									1																	2				
Ciliate	5	3		1	1	1	2	3	3		2		1	2	1			2	4	3	2							3		
Copepod							1																							
Nauplius							2	1	2																					
Pluteus																				1										
Radiolarian									1				1						1											
Rotifer							1	2	1																					
Tintinnid																														
Zoea																														
other							1	1																						
Dominant Species/Group																														
name	*Skeletonema costatum*	*Thalassiosira spp.*	*Thalassiosira sp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	no dominant	ciliates	*Skeletonema costatum*	*Mesodinium rubrum*	ciliates	ciliates	*Thalassiosira sp.*	*Thalassiosira sp.*	dinoflagellates	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Chaetoceros convolutus*	*Chaetoceros convolutus*	*Chaetoceros concavicorne*
count (cells/mL)	1600	~840	~225	3700	1600	1600	tow	tow	tow	10000	19000	4400	9000	11000	4600	0	~2	~5	~60	~10	~2	~2	~3	~3	~150	~200	~300	~60	~50	~14
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	75	85	94	96	95	97	90	90	87	95	95	95	97	95	97	0	0	100	10	0	20	50	80	39	90	95	99	90	95	97
Dinoflagellates	15	10	5	2	3	1	7	7	9	4	3	4	0	3	1	0	30	0	0	10	10	30	10	60	5	4	0	2	2	2
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	100	20	0	5	5	20	20	10	1	1	1	1	5	3	1
Zooplankton	9	4	0	1	1	1	2	2	2	0	1	0	2	1	1	0	50	0	85	85	50	0	0	0	4	0	0	3	0	0
Biomass	3.5	3.5	3.0	4.0	3.5	3.0	3.0	3.0	3.0	4.0	4.5	3.0	4.0	4.0	3.5	1.0	1.0	1.0	2.0	1.5	1.0	1.0	1.0	1.0	1.5	2.0	2.0	2.5	2.5	1.5

Table 19 : Diatoms in Boughy Bay samples.

date	5-Mar			12-Mar			19-Mar			26-Mar			2-Apr			9-Apr			16-Apr			23-Apr			30-Apr			7-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.																											1			
Biddulphia sp.																														
Campylosiral Plagiogramma																														
Cerautalina sp.																			1	1	1									
Chaetoceros concavicorne														1					1	1			1	1		1	1	1		1
Chaetoceros convolutus																			1	3	2	2	2	1	3	2	1	2	2	3
Chaetoceros sp.			1							1	1		1		1		1						1		1	1		1	1	1
Corethron hystrix																									1	1			1	1
Cylindrotheca closterium																														
Coscinodiscus sp.																														
Dactylisolen sp.																														
Detonula pumila																														
Ditylum brightwellii																														
Eucampia zoodiacus																														
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																			1											
Leptocylindrus danicus																														
Leptocylindrus minimus																														
Licmophora sp.																													1	
Melosira sp.																														
Navicula sp.																			1	1	1			1	1	1	1	1	1	1
Nitzschioid sp.	1			1			1		1																		1	1		
Pleurosigma/ Gyrosigma sp.																														
Rhizosolenia setigera																									1		1		1	
Rhizosolenia sp. (pointy)																													1	
Rhizosolenia sp. (blunt)																														
Rhizosolenia stolterfothii																		1	1						1	1	1	1	1	1
Skeletonema costatum						1		1																						
Stephanopyxis sp.																					1							1		
Thalassionema sp.										1		1	1		1		1	1	1	2	2	2	2	2	2	2	2	2	1	1
Thalassiosira sp.			1		1			1																						
Thalassiothrix sp.																														
Triceratium sp.																														

Table 19 cont'd

date	14-May			21-May			28-May			4-Jun			11-Jun			18-Jun			25-Jun			2-Jul			9-Jul			16-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																									1					
Asterionella japonica																														
Bacteriastrum sp.																														
Biddulphia sp.																														
Campylosira/Plagiogramma																														
Cerautalina sp.																							1							
Chaetoceros concavicorne																			1				1							1
Chaetoceros convolutus	1	1	1			1																								
Chaetoceros sp.	7	7	5	5	5	5	5	5	6	6	5	6	5	7	4	5	6	9	6	5	3	5	3	2	6	3	4	4	7	2
Corethron hystrix	1		1	1		1	1																1							
Cylindrotheca closterium						1										1							1		1			1		
Coscinodiscus sp.													1							1		1	1	1			1	1	1	
Dactylisolen sp.																														
Detonula pumila																														
Ditylum brightwellii																						1	1		1	1	1	1	1	
Eucampia zoodiacus				1		1													1				1	1		1				
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus	1	1	1	1	1		1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Leptocylindrus minimus																														
Licmophora sp.																														
Melosira sp.										1						1														
Navicula sp.	1									1								1					1	1						
Nitzschioid sp.	1	1	1	1	1	1	1	1	1		1		1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	2	1
Pleurosigma/ Gyrosigma sp.											1									1	1						1			
Rhizosolenia setigera																													1	
Rhizosolenia sp. (pointy)																						1								
Rhizosolenia sp. (blunt)	1	1	1			1				1	1	1		1		1	1	1												
Rhizosolenia stolterfothii	1							1											1				1	1	1	1	1	1	1	1
Skeletonema costatum	1	1	1	1	1	1										1														
Stephanopyxis sp.							1																							
Thalassionema sp.	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Thalassiosira sp.	2	2	2	1	2	2	1	2	2	2	1	2	2	2	2	2	2	2	1	2	2	2	1	2	2	2	2	2	2	1
Thalassiothrix sp.																														
Triceratium sp.																														

Table 19 cont'd

date	23-Jul			30-Jul			6-Aug			13-Aug			20-Aug			27-Aug			3-Sep			10-Sep			24-Sep			8-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																														
Asterionella japonica		1		1	1	1	1	1	1		1		1	1	1															
Bacteriastrum sp.																														
Biddulphia sp.								1																						
Campylosiral Plagiogramma																														
Cerautalina sp.															1															
Chaetoceros concavicorne																										1		1	1	1
Chaetoceros convolutus	1						*3	*5	*5																			1	1	1
Chaetoceros sp.	7	5	3	5	4	2	9	10	10	3	3	1	5	5	5				1		1	1		1		2	1	1	1	
Corethron hystrix																				1			1	1		1				
Cylindrotheca closterium									1		1																	1		
Coscinodiscus sp.								1	1																					
Dactylisolen sp.																														
Detonula pumila									1																				1	
Ditylum brightwellii	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							1								
Eucampia zoodiacus							1	1	1																					
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus	1	1	1	1	1		1	1	1	1		1			1															
Leptocylindrus minimus																				1										
Licmophora sp.									1			1			1													1		
Melosira sp.											1	1	1	1	1														1	
Navicula sp.																				1							1			
Nitzschioid sp.	2	1	2	1	1	1	1	1	1	1	1		1	1	1															
Pleurosigmal Gyrosigma sp.																														
Rhizosolenia setigera			1	1	1		*15	*10	*10																					
Rhizosolenia sp. (pointy)								1																				1		
Rhizosolenia sp. (blunt)		1		1				1	1				1																	
Rhizosolenia stolterfothii	1	1					1					1																		
Skeletonema costatum	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					1		1			1	1	1	1	1	1
Stephanopyxis sp.		1																												
Thalassionema sp.		1	1	1	1	1	1	1	1		1	1	1							1					1					
Thalassiosira sp.	2	1	1	2	1	1	2	3	3	2	1	1	3	2	3	1	1			1		1	1	1		2	2		1	1
Thalassiothrix sp.																						1								
Triceratium sp.																														

Table 20 : Dinoflagellates in Boughy Bay samples.

date	5-Mar			12-Mar			19-Mar			26-Mar			2-Apr			9-Apr			16-Apr			23-Apr			30-Apr			7-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														1
Amphidinium sp.																														
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.																														
Dinophysioid sp.																														
Diplopsalis sp.																	1													
Gonyaulacoid sp.																														
Gymnodinioid sp.	1	1		1				1		1	1	2		1		4	1		5	3	1	1	2	1	2	1	3	4	2	2
Gymnodinium galatheanum																						1	1	1						
Gyrodinium spirale-type																														
Heterocapsa triquetra																														
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum sp.																			1	1					1		2		1	1
Protoperidinioid sp.		1	1																											
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 20 cont'd

date	14-May			21-May			28-May			4-Jun			11-Jun			18-Jun			25-Jun			2-Jul			9-Jul			16-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.											1																			
Amphidinium sp.																														
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.																1													1	
Dinophysioid sp.																														
Diplopsalis sp.																														
Gonyaulacoid sp.																														
Gymnodinioid sp.	5	3	6	3	1	3	3	5	5	4	1	4	4	4	3	2	3	3		3		2	3	2	3	2	3	3	2	1
Gymnodinium galatheanum															1		1					1		1		1	1		1	
Gyrodinium spirale-type						1																								
Heterocapsa triquetra				1									1	1		1	1	1			1	1	1		1	1	1			
Noctiluca scintillans																													1	
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum sp.								1																						
Protoperidinioid sp.	2	2	2	2		1		2	1	1		1	2	2	1	1	1	1	1	1	1	1	1	1	1	1		1	1	
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 20 cont'd

date	23-Jul			30-Jul			6-Aug			13-Aug			20-Aug			27-Aug			3-Sep			10-Sep			24-Sep			8-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.													1																	
Amphidinium sp.	1																													
Ceratium divericatum																														
Ceratium furca							1	1																						
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum									1																					
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.							2	2	3																					
Dinophysioid sp.								1	1																					
Diplopsalis sp.																1		1												
Gonyaulacoid sp.																			2			1	2							
Gymnodinioid sp.	5	4	2	3	1	1	3	1	2	1	1		3	1	2						2									
Gymnodinium galatheanum																														
Gyrodinium spirale-type			1				1	1	1	1																				
Heterocapsa triquetra							1	1																						
Noctiluca scintillans							*1	*2	*7																					
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum sp.																					1				2	1	1			
Protoperidinioid sp.	3			2	1		5	4	5	1	1		2	2	1															
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 21 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Boughy Bay samples.

date	5-Mar			12-Mar			19-Mar			26-Mar			2-Apr			9-Apr			16-Apr			23-Apr			30-Apr			7-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																									1			1		1
Dictyocha speculum																														
Dinobryon balticum																				1										
Ebria tripartita																1			1											
Euglenoid																														
Phaeocystis pouchetii																														
unid. Nanoflagellates	5	5	3	6	6	3	5	3	4	5	5	5	5	5	4	5	3	3	6	5	5	5	3	4	5	4	4	3	4	3
Zooplankton																														
Appendicularian																														
Ciliate	2	1	1	4	2	1	5	1	2	2	2	2	1	1	2	5	3	2	4	3	1	3	3	3	3	1	1	3	2	1
Copepod																														
Nauplius																														
Pluteus																														
Radiolarian																														
Rotifer																		1						1						
Tintinnid																														
Zoea																														
other																														
Dominant Species/Group																														
name	ciliates	dinoflagellates	diatoms	ciliates	diatoms	*Skeletonema costatum*	ciliates	diatoms	ciliates	ciliates	ciliates	ciliates	diatoms	*Chaetoceros concavicorne*	diatoms	ciliates	ciliates	*Thalassiosira sp.*	*Chaetoceros convolutus*	*Chaetoceros concavicorne*	*Chaetoceros concavicorne*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Fseudonitzschia sp.*
count (cells/mL)	~3	~2	~2	~10	~20	~50	~25	~10	~4	~15	~3	~4	~4	~7	~8	~20	~10	~10	~75	~80	~14	~100	~110	~150	~210	~360	~400	2200	1500	1400
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	10	0	30	10	20	50	10	70	20	30	20	10	70	60	70	0	40	70	75	90	85	75	75	75	70	85	75	85	90	87
Dinoflagellates	10	40	15	10	0	0	0	10	0	10	10	20	0	15	0	25	10	0	15	5	5	10	10	10	15	5	20	10	5	8
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	40	45	40	15	20	20	10	10	20	10	20	20	15	10	10	10	10	10	2	2	5	5	3	2	5	5	2	1	2	3
Zooplankton	40	15	15	65	60	30	80	10	60	50	50	50	15	15	20	65	40	20	8	3	5	10	12	13	10	5	3	4	3	2
Biomass	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.0	1.0	1.5	1.0	1.0	1.0	1.0	1.0	2.0	2.0	1.5	2.5	2.5	1.5	2.5	2.5	2.5	3.0	2.5	2.5	3.5	3.0	3.0

Table 21 cont'd

date	14-May			21-May			28-May			4-Jun			11-Jun			18-Jun			25-Jun			2-Jul			9-Jul			16-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads													1	1		1	1		1	1	1	1	1	1	1	1	1	1	1	1
Dictyocha speculum																														
Dinobryon balticum																	1													
Ebria tripartita			1										1																	
Euglenoid		1																												
Phaeocystis pouchetii																														
unid. Nanoflagellates	3	3	4	5	4	4	3	3	3	2	4	2	4	3	2	3	3	4	3	3	2	2	2	3	2	2	2	3	2	3
Zooplankton																														
Appendicularian																														
Ciliate	4	1	2		1		2	1	4	1	2	1	3	3	1	3	1	1	2	1		2	5	3	1	3	2	1	2	1
Copepod												1	1								1			1						
Nauplius																														
Pluteus																														
Radiolarian																														
Rotifer																							1	1	1					
Tintinnid	1	1						2																						
Zoea																		1								1				
other																														
Dominant Species/Group																														
name	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Thalassionema nitzschioide*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Thalassionema nitzschioide*	*Thalassionema nitzschioide*	*Thalassionema nitzschioide*	*Skeletonema costatum*	*Skeletonema costatum*	*Thalassiosira spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*
count (cells/mL)	6700	6000	6000	4000	3600	1200	~700	~550	~320	~900	~800	~400	2500	2300	1800	~710	2000	4400	2300	2000	1200	~900	~470	~260	~700	~800	~810	1300	1100	~300
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	87	90	80	89	96	90	85	60	65	93	92	86	75	80	90	70	75	91	95	80	92	75	55	55	65	80	84	90	80	90
Dinoflagellates	8	6	15	10	2	9	10	34	25	5	3	10	15	14	7	25	20	6	1	15	5	8	5	5	25	13	8	7	16	5
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	1	2	2	1	1	1	2	2	2	1	2	1	5	3	1	3	4	1	2	3	2	15	35	35	7	2	5	2	2	3
Zooplankton	4	2	3	0	1	0	3	4	8	1	3	3	5	3	2	2	1	2	2	2	1	2	5	5	3	5	3	1	2	2
Biomass	4.0	3.5	4.0	4.0	3.5	3.0	3.5	3.0	2.5	3.0	2.0	2.0	4.0	4.0	3.5	4.0	3.5	3.5	3.0	3.0	2.5	3.0	3.0	3.0	3.5	3.5	3.5	3.5	3.5	2.5

Table 21 cont'd

date	23-Jul			30-Jul			6-Aug			13-Aug			20-Aug			27-Aug			3-Sep			10-Sep			24-Sep			8-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum		1	1		1		*5		*1	1			1			1				1				1						
Dinobryon balticum															1															
Ebria tripartita																														
Euglenoid																														
Phaeocystis pouchetii																														
unid. Nanoflagellates	3	2	2	3	2	3	2	1	2	2	2	2	2	2	1	0	2	2	3	3	2	2	2	2	1	1	1	3	1	4
Zooplankton																														
Appendicularian																														
Ciliate	1	1	2				1	3	3		1		1	1	1		1	1	2	2	2					1	2	1		
Copepod								1	3																					
Nauplius									2																					
Pluteus																											1			
Radiolarian																														
Rotifer								1																						
Tintinnid			1	1				3	3																					
Zoea																												1		
other								1	2																					
Dominant Species/Group																														
name	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Thalassiosira sp.*	*Thalassiosira sp.*	ciliates	ciliates	ciliates	ciliates	diatoms	*Thalassiosira sp.*	*Thalassiosira sp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Chaetoceros convolutus*	*Chaetoceros convolutus*	*Chaetoceros concavicorne*
count (cells/mL)	~1000	~2800	~940	~3500	~800	~400	low	low	low	~12000	~4900	~1400	~6400	~10000	~6200	~1	~2	~2	~7	~5	~5	~25	~2	~3	~200	~200	~200	~23	~12	~4
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	85	90	90	88	95	95	93	91	80	95	95	99	96	97	97	40	50	0	10	30	20	98	80	75	95	93	90	98	99	99
Dinoflagellates	12	7	5	10	4	3	5	5	10	4	3	0	2	1	1	30	0	20	15	0	30	1	15	0	4	2	2	0	0	0
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	1	2	1	1	1	2	1	1	1	1	1	1	1	1	1	30	30	30	10	10	10	1	5	25	1	1	1	1	1	1
Zooplankton	2	1	4	1	0	0	1	3	9	0	1	0	1	1	1	0	20	50	65	60	40	0	0	0	0	4	7	1	0	0
Biomass	3.5	4.0	3.5	3.5	3.0	2.0	3.0	3.0	3.0	4.5	3.5	3.0	4.0	4.0	4.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	2.0	2.0	1.5	1.5	1.0

Table 22 : Diatoms in Althorp Point samples.

date	08-Mar			15-Mar			22-Mar			29-Mar			05-Apr			12-Apr			19-Apr			26-Apr			03-May			10-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																						1								
Amphiprora/ Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.																						1								
Biddulphia sp.			1										1																	
Campylosira/Plagiogramma																			1											
Cerautalina sp.																														
Chaetoceros concavicorne										1																				
Chaetoceros convolutus																														
Chaetoceros sp.	1	1	3	2	1		2	1	2	1	1	2	3	3	4	1	3	1	7	5	5	2	2	2	1	1	1	1	1	2
Corethron hystrix	1						1	1	1	1	1				1		1													
Coscinodiscus sp.																		1										1		
Cylindrotheca closterium																														
Dactyliosolen sp.																														
Detonula pumila																														
Dityium brightwellii																		1												
Eucampia zoodiacus																														
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata													1			1		1												
Leptocylindrus danicus																						1								
Leptocylindrus minimus							1	1				1	1					1				2	1		1				1	
Licmophora sp.											1		2				1	1	1		1	1	1							
Melosira sp.	1		1									1	2	1	1			1	1	1	1	1	1					1		
Navicula sp.	1			1	1	1							1	1	1		1	1		1		1							1	
Nitzschioid sp.			1	1	1	1				1	1	1	1	1	1							1	1							
Pleurosigma/ Gyrosigma sp.													2																	
Rhizosolenia setigera																						1						1		
Rhizosolenia sp.(blunt)																														
Rhizosolenia sp.(pointy)												1																		
Rhizosolenia stolterfothii			1			1																								
Skeletonema costatum	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1		
Stephanopyxis sp.																							1							
Thalassionema sp.																				1		1								
Thalassiosira sp.	1	2	1	1	1	1	1	2	2	2	2	1	3	3	2	2	2	2	2	2	3	1	1	1	2	1	1	2	2	1

Table 22 cont'd

date	17-May			23-May			31-May			07-Jun			14-Jun			21-Jun			28-Jun			05-Jul			12-Jul			19-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.																						1								
Biddulphia sp.		1					1														1									
Campylosira/Plagiogramma		1																												
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus																														
Chaetoceros sp.	2	3	1	2	4	5	1	1			1		4	3	3	3	3	2	6	7	6	4	4	4	4	5	5	6	5	4
Corethron hystrix																											1			
Coscinodiscus sp.											1											1	1							
Cylindrotheca closterium																														
Dactyliosolen sp.																													1	
Detonula pumila																													1	
Ditylum brightwellii				1	1		1						1		1				1	1	1	1	1	1	1	1	1		1	1
Eucampia zoodiacus						1																								
Grammatophora sp.																														
Hemialus sp.																				1										
Lauderia annulata																			1			1	1			1			1	
Leptocylindrus danicus							1																							
Leptocylindrus minimus																														
Licmophora sp.										1	1		1					1	1	1		1			1		1	1		
Melosira sp.		1								1									1	1	2		1	1		1	1	1	2	1
Navicula sp.												1	1		1		1			1		2	1		1	1	1	1	1	
Nitzschioid sp.	1	1	1	1		1		1	1			1	1						1				1							
Pleurosigma/ Gyrosigma sp.														1												1				
Rhizosolenia setigera																			1			1	1	1	1	1	1	1		
Rhizosolenia sp.(blunt)																			1		1									
Rhizosolenia sp.(pointy)																1														
Rhizosolenia stolterfothii						1						1						1		1		1					1	1		
Skeletonema costatum	1	1	1	1	1	1		1	1																					
Stephanopyxis sp.													1				1				1		1	1	1	1	1	1	1	
Thalassionema sp.	1																	1	1	1		1	1	1	2	1	1	2	2	2
Thalassiosira sp.	2	1	1	1	2	2	1	1	1		1	1																		

Table 22 cont'd

date	26-Jul			02-Aug			09-Aug			16-Aug			04-Sep			13-Sep			27-Sep			11-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																								
Achnanthes sp.																								
Amphiprora/ Tropidoneis																								
Asterionella japonica																								
Bacteriastrum sp.																								
Biddulphia sp.	1							1																
Campylosira/Plagiogramma																								
Cerautalina sp.																								
Chaetoceros concavicorne					1																			
Chaetoceros convolutus																								1
Chaetoceros sp.	5	4	5	1	1					1		1				2	3	2						
Corethron hystrix																								1
Coscinodiscus sp.								1		1			1					1						
Cylindrotheca closterium					1											1								
Dactyliosolen sp.																								
Detonula pumila																								
Ditylum brightwellii											1													
Eucampia zoodiacus	1		1																					
Grammatophora sp.																								
Hemialus sp.																								
Lauderia annulata																		1						
Leptocylindrus danicus	1					1		1	1				1		1									
Leptocylindrus minimus																								
Licmophora sp.													1										1	
Melosira sp.				1	1	1		1																
Navicula sp.																1	1							
Nitzschioid sp.	1		1					1	1															
Pleurosigma/ Gyrosigma sp.																1								
Rhizosolenia setigera														1										
Rhizosolenia sp.(blunt)	1	1																						
Rhizosolenia sp.(pointy)				1				1																
Rhizosolenia stolterfothii																1	1			1		1	1	1
Skeletonema costatum																								
Stephanopyxis sp.																								
Thalassionema sp.	1				1		1																	
Thalassiosira sp.	1	1	1	1	1	1		1				1				1	2	1	1	1	1	1	1	1

Table 23 : Dinoflagellates in Althorp Point samples.

date	08-Mar			15-Mar			22-Mar			29-Mar			05-Apr			12-Apr			19-Apr			26-Apr			03-May			10-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																												1	1	
Amphidinium sp.																														
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.																														
Dinophysioid sp.																														
Diplopsalis sp.																														
Gonyaulacoid sp.																						1	1	1	1	2	1	1	2	1
Gymnodinioid sp.	1		1	1	1	1	1	1		2	1	1	4	2	1	1	1													
Gymnodinium galatheanum																					1	1								
Gyrodinium spirale-type												1																		
Heterocapsa triquetra																														
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum sp.													2									1	1	1						
Protoperidinioid sp.				1																										
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 23 cont'd

date	17-May			23-May			31-May			07-Jun			14-Jun			21-Jun			28-Jun			05-Jul			12-Jul			19-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.													1																	
Amphidinium sp.																														
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.																														
Dinophysioid sp.																												1		
Diplopsalis sp.																														
Gonyaulacoid sp.												1	1	2	2			1	4		1	1		2	2	4	1	1	1	
Gymnodinioid sp.	1	1		1	1	1	1																							
Gymnodinium galatheanum																			1							2			1	
Gyrodinium spirale-type					1													1											1	
Heterocapsa triquetra																														
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																										1				
Prorocentrum sp.											1		1	1			1		1			2			2	1	1	1	2	1
Protoperidinioid sp.																														
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 23 cont'd

date	26-Jul			02-Aug			09-Aug			16-Aug			04-Sep			13-Sep			27-Sep			11-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																								
Alexandrium sp.													1											
Amphidinium sp.																			1					
Ceratium divericatum																								
Ceratium furca																								
Ceratium fusus																								
Ceratium lineatum																								
Ceratium pentagonum																								
Ceratium sp.													1											
Cochlodinium polykrikoides																								
Cochlodinium sp.																								
Dinophysioid sp.												1												
Diplopsalis sp.											1													
Gonyaulacoid sp.																								
Gymnodinioid sp.	3	2	2				1	1		2	3	1	2	3	4	4	2	3	2	1	2	2	2	3
Gymnodinium galatheanum											1				1	1		1						
Gyrodinium spirale-type																								
Heterocapsa triquetra	1																							
Noctiluca scintillans																								
Noctilucoid sp.																								
Oxyrrhis marina																								
Oxytoxum sp.																								
Polykrikos sp.																								
Prorocentrum gracile																								
Prorocentrum micans																								
Prorocentrum sp.																2	2	1	1	1			1	
Protoperidinioid sp.					1																			
Pyrocystis lunula																								
Raphidophytes																								
Heterosigma akashiwo																								

Table 24 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Althorp Point samples.

date	08-Mar			15-Mar			22-Mar			29-Mar			05-Apr			12-Apr			19-Apr			26-Apr			03-May			10-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads												1					1			1	1				1					
Dictyocha speculum																														
Dinobryon balticum																														
Ebria tripartita																														
Euglenoid																														
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	4	3	4	5	5	5	6	5	5	4	5	5	2	3	3	3	4	4	4	4	4	4	3	3	3	2	3	4	2	3
Zooplankton																														
Appendicularian																						3	2	1		1	1	1	2	1
Ciliate	1	1		1	1	1	1	1	2	2	1	2	1	1	2	1	1	2	2	1										
Copepod																														
Nauplius																														
Pluteus																														
Rotifer																														
Tintinnid																														
Zoea																														
other																														
Dominant Species/Group																														
name	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Navicula sp.*	*Skeletonema costatum*	*Navicula sp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Thalassiosira spp.*	diatoms	*Thalassiosira sp.*	*Skeletonema costatum*	*Thalassiosira spp.*	*Chaetoceros spp.*
count (cells/mL)	~170	~160	~100	~150	~90	~70	~60	~60	~80	~60	~200	~100	1040	1200	800	~300	~530	~380	~50	~20	~40	~300	~50	~50	~60	~8	~25	~50	~40	~40
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	85	80	80	93	50	87	75	65	70
Diatoms	85	90	90	80	75	70	85	82	85	60	88	80	90	90	95	85	85	90	90	90	85	5	10	10	2	30	5	10	15	10
Dinoflagellates	5	0	5	10	8	5	5	8	0	20	5	10	7	7	2	5	5	0	0	0	10	0	0	0	0	0	0	0	0	0
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	5	5	5	3	5	5	10
Other Flagellates	5	5	5	5	5	10	5	5	5	5	2	7	1	1	1	5	6	2	5	5	5	8	5	5	0	15	5	10	15	10
Zooplankton	5	5	0	5	12	15	5	5	10	15	5	3	2	2	2	5	4	8	5	5	0	3.5	2.5	2.0	2.5	1.0	2.0	2.0	1.5	1.5
Biomass	2.5	2.0	2.0	2.5	2.0	2.0	2.5	2.5	2.5	2.0	2.5	2.5	4.0	3.0	2.5	2.5	2.5	3.0	2.0	2.0	1.5									

Table 24 cont'd

date	17-May			23-May			31-May			07-Jun			14-Jun			21-Jun			28-Jun			05-Jul			12-Jul			19-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m		5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads							1						1							1			1		1					
Dictyocha speculum																														
Dinobryon balticum																									1					
Ebria tripartita																			1		1									1
Euglenoid																														
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	3	3	3	3	4	3	2	3	2	3	2	3	1	2	3	3	3	2	2	1	2	2	1	2	2	2	4	3	3	2
Zooplankton																														
Appendicularian													1		1	1	1			1	3	2	1	1	2	4	4	6	3	2
Ciliate				1																										
Copepod										1											1									
Nauplius																														
Pluteus																														
Rotifer																														
Tintinnid																														
Zoea																														
other																														
Dominant Species/Group																														
name	*Skeletonema costatum*	*Biddulphia aurita*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Thalassiosira sp.*	diatoms	diatoms	nothing dominant	diatoms	*Pseudonitzschia sp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros debilis*	*Eucampia zoodiacus*	*Melosira sulcata*	*Melosira sulcata*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros decipiens*	*Chaetoceros decipiens*
count (cells/mL)	~150	~60	~80	~380	~750	~500	~4	~10	~8		~30	~20	1400	1320	1500	~350	~100	~280	~120	~200	~150	~260	~270	~200	~150	~200	~130	~500	~60	~50
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	85	92	90	92	90	93	90	95	95	10	80	80	90	95	90	80	91	93	92	97	92	89	96	85	60	70	80	60	80	77
Dinoflagellates	10	5	0	3	8	5	6	0	0	0	10	10	6	4	7	10	2	5	5	0	2	5	0	10	15	15	5	4	4	2
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	5	3	10	2	2	2	4	5	5	30	10	10	2	1	1	5	5	2	3	1	1	1	1	2	10	2	2	1	1	1
Zooplankton	0	0	0	3	0	0	0	0	0	60	0	0	2	0	2	5	2	0	0	2	5	5	3	3	15	13	13	35	15	20
Biomass	2.0	2.5	2.0	2.5	3.0	3.0	1.5	1.0	1.0	1.0	1.0	1.0	3.5	3.0	3.5	2.0	1.5	2.0	3.0	3.0	2.5	2.5	2.0	2.0	2.5	2.5	2.0	3.0	2.5	2.0

Table 24 cont'd

date	26-Jul			02-Aug			09-Aug			16-Aug			04-Sep			13-Sep			27-Sep			11-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																								
Cryptomonads												1	1	1	1	1	1				1			
Dictyocha speculum					1																			
Dinobryon balticum														1										
Ebria tripartita																								
Euglenoid																								
Phaeocystis pouchetii																								
Radiolarian																								
unid. Nanoflagellates	2	2	3	2	3	3	1	2	3	3	4	5	3	4	2	3	3	4	2	1	4	3	3	3
Zooplankton																								
Appendicularian														1		4	3	2	1	2	2			
Ciliate	4	2	3	1					1	2	2	4												
Copepod			1						1			1												
Nauplius																								
Pluteus																								
Rotifer											2													
Tintinnid	1																							
Zoea																								
other																								
Dominant Species/Group																								
name	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Melosira sulcata*	*Melosira sulcata*	*Melosira sulcata*	no dominant	*Leptocylindrus danicus*	*Leptocylindrus danicus*	*Chaetoceros spp.*	dinoflagellates	*Thalassiosira rotula*	*Dictyocha speculum*	*Rhizosolenia fragilissima*	*Dictyocha speculum*	*Thalassiosira aestivalis*	*Thalassiosira aestivalis*	*Thalassiosira aestivalis*	*Ceratium divaricatum*	*Thalassiosira sp.*	*Thalassiosira sp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Thalassiosira sp.*
count (cells/mL)	~50	~30	~20	~15	~8	~15		~10	~5	~16	~15	~2	~2	~3	~6	~150	~170	~90	~1	~5	~7	~100	~90	~14
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	30	65	75	90	93	95
Diatoms	70	87	65	80	65	90	35	80	55	55	25	40	30	30	10	80	85	85	65	30	20	5	5	3
Dinoflagellates	10	8	15	0	10	0	35	10	0	30	50	15	35	45	30	10	8	12	0	0	0	0	0	0
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	2	2	4	10	25	10	30	10	15	5	5	10	35	20	60	5	2	1	1	1	2	5	2	2
Zooplankton	18	3	16	10	0	0	0	0	30	10	20	35	0	5	0	5	5	2	4	4	3	0	0	0
Biomass	2.0	2.0	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.0	1.0	1.0	1.5	2.5	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.5

Table 25 : Diatoms in Chancellor Channel samples.

date	27-Mar			3-Apr			10-Apr			17-Apr			24-Apr			1-May			8-May			15-May			22-May			29-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.	1																									1				
Amphiprora/ Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.																														
Biddulphia sp.																														
Campylosira/Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus							1	1					1	1	1															
Chaetoceros sp.	2	1	2	4	3	3	3	3	4	6	4	5	4	3	2	1					1		1	1	2	1				1
Corethron hystrix	1	1		1	1	1	1	1	1								1													
Coscinodiscus sp.																				1										
Cylindrotheca closterium																														
Dactylisolen sp.																											1			
Detonula pumila																														
Ditylum brightwellii			1																											
Eucampia zoodiacus																														
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																							1							1
Leptocylindrus danicus							1		1	1																				
Leptocylindrus minimus																					1									
Licmophora sp.										1																1				1
Melosira sp.			1											1	1				1									1		
Navicula sp.										1									1											
Nitzschioid sp.	1		1	1	1	1	1	1	1	1				1										1	1	1	1		1	
Pleurosigma/ Gyrosigma sp.									1													1								
Rhizosolenia setigera																														
Rhizosolenia sp. (pointy)																														
Rhizosolenia sp. (blunt)																														
Rhizosolenia stolterfothii											1																			
Skeletonema costatum	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1
Stephanopyxis sp.															1											1				
Thalassionema sp.					1																								1	1
Thalassiosira sp.	2	2	2	2	2	1	2	2	2	3	3	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1			

Table 25 cont'd

date	5-Jun			12-Jun			19-Jun			26-Jun			3-Jul			10-Jul			17-Jul			27-Jul			31-Jul			7-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.	1																													
Amphiproral Tropidoneis																														
Asterionella japonica							1																							
Bacteriastrum sp.															1															
Biddulphia sp.																														
Campylosiral Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne								1			1												1			1		1		
Chaetoceros convolutus																					1	2	2	1	3	4	3		1	
Chaetoceros sp.	1		1	2	2	2	2	2	2	1	3	2	2	1	2							1	1	1	1	1	1			
Corethron hystrix																						1	1							
Coscinodiscus sp.																														
Cylindrotheca closterium																														
Dactylisolen sp.																				1										
Detonula pumila																														
Ditylum brightwellii										1																				
Eucampia zoodiacus																														
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus			1																								1			
Leptocylindrus minimus																	1					1						1		
Licmophora sp.									1	1			1	1	1						1			1	1		1			
Melosira sp.	1		1								1	1		1																
Navicula sp.	1																													
Nitzschioid sp.			1						1		1		1	1	1	1	1	1									1			
Pleurosigma/ Gyrosigma sp.																														
Rhizosolenia setigera																														
Rhizosolenia sp. (pointy)																									1					
Rhizosolenia sp. (blunt)																														
Rhizosolenia stolterfothii											1																			
Skeletonema costatum	1	1	1				1	1	1	1	1	1							1						1	1	1			
Stephanopyxis sp.																											1	1		
Thalassionema sp.				1			1	1	1	1	1		1	1	1				1	1	1									
Thalassiosira sp.			1	1	1	1	1	1	1			1	1	1	1	1	2	1		2	1	1	1		1	1	1		1	1

Table 25 cont'd

date	14-Aug			19-Aug			21-Aug			28-Aug			11-Sep			18-Sep			25-Sep			2-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																								
Achnanthes sp.																								
Amphiprora/ Tropidoneis																								
Asterionella japonica																								
Bacteriastrum sp.																								
Biddulphia sp.																								
Campylosira/Plagiogramma																								
Cerautalina sp.																								
Chaetoceros concavicorne																								
Chaetoceros convolutus		1																						
Chaetoceros sp.	1															3	3	2	1	1	1		1	
Corethron hystrix																		1		1				
Coscinodiscus sp.					1											1								1
Cylindrotheca closterium																		1						
Dactylisolen sp.																								
Detonula pumila																								
Ditylum brightwellii																1		1						
Eucampia zoodiacus																								
Grammatophora sp.																								
Hemialus sp.																								
Lauderia annulata																								
Leptocylindrus danicus																								
Leptocylindrus minimus																								
Licmophora sp.																								
Melosira sp.			1		1	1			1		1							1			1	1		1
Navicula sp.		1	1		1																			
Nitzschioid sp.				1																				1
Pleurosigma/ Gyrosigma sp.																					1			
Rhizosolenia setigera																								
Rhizosolenia sp. (pointy)																								
Rhizosolenia sp. (blunt)																			1					
Rhizosolenia stolterfothii																								
Skeletonema costatum					1											1	1	1	1	1	1	1	1	1
Stephanopyxis sp.						1																		
Thalassionema sp.	1			1												1	1		1					
Thalassiosira sp.	1		1													1	1	1	2	1	2	1		1

Table 26 : Dinoflagellates in Chancellor Channel samples.

date	27-Mar			3-Apr			10-Apr			17-Apr			24-Apr			1-May			8-May			15-May			22-May			29-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.								1																						
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																						1								
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium sp.																														
Dinophysioid sp.																														
Diplopsalis sp.																														
Gonyaulacoid sp.						1						1																		1
Gymnodinioid sp.	1	1	1					1			1		1		1	1	1	1	2	1	2	1	1	2			1	2		
Gymnodinium galatheanum																														
Gyrodinium spirale-type	2	1					1	1																	1	1		1		
Heterocapsa triquetra																														
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																						1								
Prorocentrum sp.																														
Protoperidinioid sp.			1	1						1	1	2										1								2
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 26 cont'd

date	5-Jun			12-Jun			19-Jun			26-Jun			3-Jul			10-Jul			17-Jul			27-Jul			31-Jul			7-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.	1																													
Amphidinium sp.																														
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium sp.																														1
Dinophysioid sp.																														
Diplopsalis sp.																														
Gonyaulacoid sp.																							1							
Gymnodinioid sp.			1				2		2	1	1	1	4	1		1	1			3	2	1	3	2	2	2	2	1	2	1
Gymnodinium galatheanum																														
Gyrodinium spirale-type																			2	1						1				
Heterocapsa triquetra	1	1		1	1	1																								
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum sp.																														
Protoperidinioid sp.	1	1					1	1	1		2					1	1	1			2		1							
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 26 cont'd

date	14-Aug			19-Aug			21-Aug			28-Aug			11-Sep			18-Sep			25-Sep			2-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																								
Alexandrium sp.																								
Amphidinium sp.																1								
Ceratium divericatum																								
Ceratium furca																								
Ceratium fusus																								
Ceratium lineatum																								
Ceratium pentagonum																								
Ceratium sp.																								
Cochlodinium sp.																								
Dinophysioid sp.										1							1		1					
Diplopsalis sp.					1																			
Gonyaulacoid sp.										1														
Gymnodinioid sp.	1	1	1	3	1		3		1	1			2	1	2	3	3	2		1		2	1	3
Gymnodinium galatheanum																								
Gyrodinium spirale-type																1	1	1				2		1
Heterocapsa triquetra				1									1					1	1					
Noctiluca scintillans																								
Noctilucoid sp.																								
Oxyrrhis marina																								
Oxytoxum sp.																								
Polykrikos sp.																								
Prorocentrum gracile																								
Prorocentrum micans																1								
Prorocentrum sp.																								
Protoperidinioid sp.				3	2										1	2	1		1					1
Pyrocystis lunula																		1						
Raphidophytes																								
Heterosigma akashiwo													1											

Table 27 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Chancellor Channel samples.

date	27-Mar			3-Apr			10-Apr			17-Apr			24-Apr			1-May			8-May			15-May			22-May			29-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum																														
Dinobryon balticum																														
Ebria tripartita																							1							
Euglenoid																														
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	6	4	6	3	2	2	3	3	3	3	3	4	4	3	3	4	3	3	3	3	4	3	2	2	3	3	2	3	2	2
Zooplankton																														
Appendicularian																														
Ciliate	2	1	1		1			1					2	1	1		1	1	1	1		2	2					1		1
Copepod																														
Nauplius																														
Pluteus																														
Rotifer																														
Tintinnid							1												1									1		
Zoea																														
other																														
Dominant Species/Group																														
name	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Thalassiosira sp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Thalassiosira aestivalis*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*
count (cells/mL)	7500	1500	~500	4200	4900	2700	1150	650	1080	1500	~800	~500	~500	~180	~150	~240	~300	~100	~160	~50	~10	1300	~200	~20	16000	4000	6000	8000	1900	1200
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	87	90	83	97	97	98	96	90	99	97	95	94	85	95	92	90	85	85	65	75	50	80	60	70	94	90	93	91	99	95
Dinoflagellates	8	5	10	2	0	1	2	8	0	2	4	4	5	0	3	5	5	5	15	10	30	5	20	20	5	8	6	5	0	3
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	2	2	2	1	1	1	1	1	1	1	1	2	2	2	2	5	5	5	5	5	20	5	10	10	1	2	1	1	1	1
Zooplankton	3	3	5	0	2	0	1	1	0	0	0	0	8	3	3	0	5	5	15	10	0	10	10	0	0	0	0	3	0	1
Biomass	4.0	3.5	3.0	4.0	3.5	3.5	3.5	3.0	3.5	3.0	2.5	2.5	3.5	3.0	3.0	2.5	2.5	2.0	2.0	1.5	1.0	2.5	1.5	1.0	4.0	3.0	3.0	3.5	2.5	2.5

Table 27 cont'd

date	5-Jun			12-Jun			19-Jun			26-Jun			3-Jul			10-Jul			17-Jul			27-Jul			31-Jul			7-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum		1						1	1		1	1	1			1		1	1	1	1			1				1		
Dinobryon balticum																														
Ebria tripartita																	1				1									
Euglenoid							1	1	1	1	1	1	1	1	1	1					1							1	1	
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	2	3	1	2	3	2	3	2	2	2	2	2	2	3	2	4	2	2	2	2	2	3	2	3	3	2	4	3	3	2
Zooplankton																														
Appendicularian																														
Ciliate	1				2	1	1			2	2	1		1		1	3		1	3	3	2	1	1	1	2	2	1		
Copepod																														
Nauplius																														
Pluteus																														
Rotifer																														
Tintinnid										2																				
Zoea																														
other																														
Dominant Species/Group																														
name	*Chaetoceros debilis*	*Heterocapsa triquetra*	*Thalassiosira rotula*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	euglenoids	*Chaetoceros spp.*	*Skeletonema costatum*	euglenoids	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Thalassiosira sp.*	*Thalassiosira spp.*	*Thalassiosira sp.*	*Thalassionema nitzschioide*	*Detonula pumila*	*Thalassionema nitzschioide*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Melosira sp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	euglenoids	euglenoids	dinoflagellates
count (cells/mL)	~30	~4	~10	~50	~20	~30	~200	~250	~200	~240	~50	~80	~130	~30	~10	~10	~15	~6	~4	~4	~12	~30	~10	~15	~100	~70	~80	~60	~20	~6
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	55	10	85	85	65	65	80	88	75	30	70	70	35	70	80	65	40	50	50	40	40	85	75	78	93	92	90	8	20	30
Dinoflagellates	30	80	5	10	20	25	7	2	10	5	10	10	20	5	0	20	20	20	35	15	20	10	21	10	5	5	4	2	15	40
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	5	10	5	5	5	5	10	10	15	55	15	10	45	20	20	10	10	30	10	10	20	2	2	10	1	1	1	85	65	30
Zooplankton	10	0	5	0	10	5	3	0	0	10	5	10	0	5	0	5	30	0	5	35	20	3	2	2	1	2	5	5	0	0
Biomass	1.5	1.0	1.5	1.0	1.0	1.0	2.0	2.0	2.0	2.5	2.0	2.0	1.5	1.5	1.5	1.5	1.5	1.0	1.5	1.5	1.5	1.5	1.5	1.0	2.0	2.0	2.0	1.5	1.0	1.0

Table 27 cont'd

date	14-Aug			19-Aug			21-Aug			28-Aug			11-Sep			18-Sep			25-Sep			2-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																								
Cryptomonads																								
Dictyocha speculum	1		1	1	1	1	1	1	1	1		1	1		1		1	1		1			1	1
Dinobryon balticum																								
Ebria tripartita																1								
Euglenoid																						1	1	
Phaeocystis pouchetii																								
Radiolarian																								
unid. Nanoflagellates	4	2	2	5	2	2	1	2	2	2	3	1	5	3	3	4	5	3	2	3	2	3	1	1
Zooplankton																								
Appendicularian				1																				
Ciliate		1		6	5	3	4	3	3		1		1									1		
Copepod																								
Nauplius																								
Pluteus																								
Rotifer																								
Tintinnid					1							1		2		1								
Zoea																								
other												1												
Dominant Species/Group																								
name	diatoms	*Chaetoceros convolutus*	*Melosira sulcata*	*Dictyocha speculum*	*Dictyocha speculum*	*Dictyocha speculum*	*Dictyocha speculum*	ciliates	*Dictyocha speculum*	*Dictyocha speculum*	*Melosira moniliformes*	*Dictyocha speculum*	*Dictyocha speculum*	tintinnids	*Dictyocha speculum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*
count (cells/mL)	~20	~3	~25	~45	~15	~3	~50	~10	~6	~13	~5	~4	~6	~3	~4	4600	4200	3900	1800	~530	~450	~710	~490	~150
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	70	60	75	5	10	20	0	0	30	0	55	0	0	0	0	85	80	90	90	90	99	85	95	80
Dinoflagellates	10	10	5	10	15	0	10	0	5	15	0	0	15	15	20	5	5	6	9	5	0	13	1	19
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	20	20	20	35	35	25	60	30	45	85	5	70	83	15	80	2	5	2	1	5	1	1	4	1
Zooplankton	0	10	0	50	40	55	30	70	20	0	40	30	1	70	0	8	10	2	0	0	0	1	0	0
Biomass	1.0	1.0	1.0	2.5	1.5	1.0	2.0	1.0	1.0	1.5	1.0	1.0	1.0	1.0	1.0	3.5	3.5	3.0	2.0	1.0	1.0	2.0	1.5	1.5

Table 28 : Diatoms in Brougham Point samples.

date	4-Mar			11-Mar			18-Mar			26-Mar			1-Apr			8-Apr			15-Apr			22-Apr			29-Apr			6-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																														
Asterionella japonica																														
Asteromphalus sp.																														
Bacteriastrum sp.																														
Biddulphia sp.																														
Campylosiral Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne																							1							
Chaetoceros convolutus		1																												
Chaetoceros sp.		1			1				1							2	1	2	2	2	1	3	3	3	1	1		2	1	1
Corethron hystrix																														
Coscinodiscus sp.																														
Cylindrotheca closterium	1							1	1		1																			
Dactylisolen sp.																														
Detonula pumila																														
Ditylum brightwellii																														
Eucampia zoodiacus																														
Fragilariopsis sp.																														
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus																														
Leptocylindrus minimus																														
Licmophora sp.												1			1								1							
Melosira sp.																			1			1								
Navicula sp.																		1									1			
Nitzschioid sp.																														
Pleurosigmal Gyrosigma sp.																														
Rhizosolenia setigera																											1			
Rhizosolenia sp. (pointy)																														
Rhizosolenia sp. (blunt)	1																													
Rhizosolenia stolterfothii																														
Skeletonema costatum			1	1																	1									
Stephanopyxis sp.																														
Thalassionema sp.																														
Thalassiosira sp.	1	1	2		1	2	1	1	1	2	1	2	1	1	1	1	1	1	2	2	2	1	2	1	2	1	1		1	1

Table 28 cont'd

date	14-May			21-May			27-May			4-Jun			11-Jun			18-Jun			25-Jun			2-Jul			9-Jul			16-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																						1								
Asterionella japonica																														1
Asteromphalus sp.																														
Bacteriastrum sp.																														
Biddulphia sp.			1																			1	1							1
Campylosira/Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne														1									1							
Chaetoceros convolutus																														
Chaetoceros sp.	1	2	1	1	1		5	5	2	2	2	3	3	3	4	3	4	4	3	3	5	5	7	7	3	1	3	5	4	3
Corethron hystrix								1														1								
Coscinodiscus sp.																														
Cylindrotheca closterium				1																			1	1		1	1			
Dactylisolen sp.																														
Detonula pumila																						1						1		1
Ditylum brightwellii																												1		1
Eucampia zoodiacus							1																1							
Fragilariopsis sp.																						1								
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																												1		
Leptocylindrus danicus							1	1					1			1	1	1	1		1						1	1		
Leptocylindrus minimus																														
Licmophora sp.																				1	1							1		1
Melosira sp.																					1	1	1	1				1		
Navicula sp.																														
Nitzschioid sp.	1	1	1	1	1	1	1	1	1						1		1	1	1	1	1	1	1	1	1	1	1	1	1	2
Pleurosigma/ Gyrosigma sp.																						1	1							1
Rhizosolenia setigera																	1					1	1			1	1		1	1
Rhizosolenia sp. (pointy)	1																												1	
Rhizosolenia sp. (blunt)																							1							
Rhizosolenia stolterfothii																												1		
Skeletonema costatum				1	1	1	1	1		1	1		1	1	1				1			1	1		1		1	1	1	1
Stephanopyxis sp.							1																							
Thalassionema sp.							1		1		1	1	1				1	1		1	1	1	1		1	1	1	1		1
Thalassiosira sp.	2	2	2	2	2	1	2	2	2	2	1	1	1	2	1	2	2	1	2	2	2	2	2	2	1	1	1	2	1	2

Table 28 cont'd

date	23-Jul			30-Jul			6-Aug			13-Aug			20-Aug			27-Aug			3-Sep			10-Sep			17-Sep			24-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																						1								
Amphiproral Tropidoneis																														
Asterionella japonica					1																									
Asteromphalus sp.																														
Bacteriastrum sp.																														
Biddulphia sp.													1								1									
Campylosira/Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus																					1									
Chaetoceros sp.	2	3	4	2	4	2	2														4	4			3	2	1	3	1	2
Corethron hystrix																														
Coscinodiscus sp.							1															1		1		1				
Cylindrotheca closterium											1																		1	
Dactylisolen sp.																														
Detonula pumila														1																
Ditylum brightwellii																			1											1
Eucampia zoodiacus			1																		1									
Fragilariopsis sp.																														
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus				1																									1	1
Leptocylindrus minimus																														
Licmophora sp.																						1								
Melosira sp.				1			1												1		2	1	1	1			1			
Navicula sp.			2				1	1	1	1					1						1	1						1		
Nitzschioid sp.			1	1		1															2	1								
Pleurosigma/ Gyrosigma sp.																					1									
Rhizosolenia setigera																					1									
Rhizosolenia sp. (pointy)																			1								1			
Rhizosolenia sp. (blunt)																												1	1	1
Rhizosolenia stolterfothii																	1			1	1	1			1		1	1	1	1
Skeletonema costatum		1	1																											
Stephanopyxis sp.														1	1				1		1	1				1	1			
Thalassionema sp.							1	1	1				1	1	1	1	1				1	1	1	1	1		1	1	1	2
Thalassiosira sp.	1	1	1	1		1	2	1	1			1																		

Table 28 cont'd

date	1-Oct			8-Oct			15-Oct			22-Oct			29-Oct			5-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																		
Achnanthes sp.																		
Amphiproral Tropidoneis																		
Asterionella japonica																		
Asteromphalus sp.															1			
Bacteriastrum sp.																		
Biddulphia sp																		
Campylosiral Plagiogramma																		
Cerautalina sp.																		
Chaetoceros concavicorne																		
Chaetoceros convolutus																		
Chaetoceros sp.											1							
Corethron hystrix																		
Coscinodiscus sp.								1							1			
Cylindrotheca closterium																		
Dactylisolen sp.			1															
Detonula pumila																		
Ditylum brightwellii															1			
Eucampia zoodiacus																		
Fragilariopsis sp.																		
Grammatophora sp.																		
Hemialus sp.																		
Lauderia annulata																		
Leptocylindrus danicus																		
Leptocylindrus minimus																		
Licmophora sp.																		
Melosira sp.								1			1		1		1			
Navicula sp.														1				
Nitzschioid sp.										1					2			
Pleurosigma/ Gyrosigma sp.															1			
Rhizosolenia setigera															1			
Rhizosolenia sp. (pointy)																		
Rhizosolenia sp. (blunt)	1																	
Rhizosolenia stolterfothii															1			
Skeletonema costatum															1		1	
Stephanopyxis sp.																		
Thalassionema sp.									1						1			
Thalassiosira sp.		1	1		1		1	1	1			1		1	3			

Table 29 : Dinoflagellates in Brougham Point samples.

date	4-Mar			11-Mar			18-Mar			26-Mar			1-Apr			8-Apr			15-Apr			22-Apr			29-Apr			6-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.																														
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium sp.																														
Dinophysioid sp.																														
Diplopsalis sp.																														
Gonyaulacoid sp.																														
Gymnodinioid sp.	2	1	1	1	1	1	1	1		1		1	1	1		1			1	1			1	1	2	1		3	1	
Gymnodinium galatheanum																														
Gyrodinium spirale-type		1	1																											
Heterocapsa triquetra																														
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum sp.																														
Protoperidinioid sp.						1											2						1	1						
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 29 cont'd

date	14-May			21-May			27-May			4-Jun			11-Jun			18-Jun			25-Jun			2-Jul			9-Jul			16-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.		1																												
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.													1																	
Cochlodinium sp.																														
Dinophysioid sp.																			1											
Diplopsalis sp.																														
Gonyaulacoid sp.																							1							
Gymnodinioid sp.	2	3	1	1	1		3	1	2	1			1		2	2			1	2		1		1	1	1	1	2	2	2
Gymnodinium galatheanum																														
Gyrodinium spirale-type								1							1				1	1			1						1	1
Heterocapsa triquetra															1								1							
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile																								1						
Prorocentrum micans																														
Prorocentrum sp.																														
Protoperidinioid sp.	2	2	2		1		1	1	1	2	1	1	1	1	1	1	1	1	4	1		1						1		1
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 29 cont'd

date	23-Jul			30-Jul			6-Aug			13-Aug			20-Aug			27-Aug			3-Sep			10-Sep			17-Sep			24-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.													1		1															
Amphidinium sp.																														
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																													1	
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium sp.																														
Dinophysioid sp.																					1	1								
Diplopsalis sp.		1																												
Gonyaulacoid sp.																														
Gymnodinioid sp.	1	2	2	2	1	2	1	2	1	3	1		5	3	3				4	5	3	4	4	3	1	2		2		
Gymnodinium galatheanum																														
Gyrodinium spirale-type		1												1					1				1						1	
Heterocapsa triquetra											1	1	1				1													1
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile																1														
Prorocentrum micans																													1	
Prorocentrum sp.																														
Protoperidinioid sp.		2			1	1	1		1	1	1	1	1	2					3		3	1				3	2		1	
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo			1																											

Table 29 cont'd

date	1-Oct			8-Oct			15-Oct			22-Oct			29-Oct			5-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																		
Alexandrium sp.																		
Amphidinium sp.				1														
Ceratium divericatum																		
Ceratium furca																		
Ceratium fusus																		
Ceratium lineatum																		
Ceratium pentagonum																		
Ceratium sp.																		
Cochlodinium sp.																		
Dinophysioid sp.		1					1											
Diplopsalis sp.																		
Gonyaulacoid sp.																		
Gymnodinioid sp.	4	1	1	2	2	3	2	2	1	1		1	2	1	1	2	1	1
Gymnodinium galatheanum																		
Gyrodinium spirale-type																		
Heterocapsa triquetra				1														
Noctiluca scintillans																		
Noctilucoid sp.																		
Oxyrrhis marina																		
Oxytoxum sp.																		
Polykrikos sp.																		
Prorocentrum gracile																		
Prorocentrum micans																		
Prorocentrum sp.																		
Protoperidinioid sp.							1	1		1	1		1		1			
Pyrocystis lunula																		
Raphidophytes																		
Heterosigma akashiwo																		

Table 30 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Brougham Point samples.

date	4-Mar			11-Mar			18-Mar			26-Mar			1-Apr			8-Apr			15-Apr			22-Apr			29-Apr			6-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum																														
Dinobryon balticum																														
Ebria tripartita																														
Euglenoid	1	1		1												1	1		1	1	1	1	1	1						
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	4	5	4	3	4	5	6	5	4	6	6	5	4	5	5	2	2	2	3	4	3	3	4	5	4	4	5	3	4	4
Zooplankton																														
Amoebae																														
Appendicularian																														
Ciliate	1			1	1	2				1	1	1		1	1	2		2	3	2	2	1	1	2	1	1				2
Copepod																														
Nauplius																			1											
Pluteus																														
Rotifer																														
Tintinnid																														
Zoea																														
other																			1											
Dominant Species/Group																														
name	diatoms	*Chaetoceros debilis*	*Thalassiosira spp.*	*Gymnodinium sp.*	*Thalassiosira spp.*	*Thalassiosira sp.*	*Thalassiosira sp.*	*Thalassiosira sp.*	*Thalassiosira sp.*	*Thalassiosira spp.*	*Thalassiosira sp.*	*Thalassiosira spp.*	*Thalassiosira sp.*	*Thalassiosira sp.*	*Thalassiosira sp.*	*Chaetoceros spp.*	*Thalassiosira sp.*	*Chaetoceros spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Thalassiosira spp.*	*Thalassiosira sp.*	*Thalassiosira sp.*	*Chaetoceros spp.*	*Chaetoceros sp.*	*Chaetoceros sp.*
count (cells/mL)	~6	~40	~15	~3	~2	~15	~2	~20	~15	~8	~2	~4	~2	~5	~8	~50	~14	~100	~35	~100	~50	~60	~170	~150	~30	~10	~4	~30	~50	~10
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	60	75	72	30	50	55	50	70	80	70	60	65	30	60	65	70	80	90	63	75	85	90	85	80	70	60	80	60	80	65
Dinoflagellates	20	15	20	40	20	25	20	20	0	10	0	15	15	15	0	10	15	0	2	2	0	0	5	8	15	15	0	30	10	0
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	10	10	8	20	20	5	30	10	20	10	20	10	55	10	15	5	5	2	25	15	5	5	5	5	5	10	20	10	10	10
Zooplankton	10	0	0	10	10	15	0	0	0	10	20	10	0	15	20	15	0	8	10	8	10	5	5	7	10	15	0	0	0	25
Biomass	1.0	1.5	1.5	1.0	1.0	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5	2.0	2.5	2.0	2.5	2.0	2.0	2.0	1.5	1.0	1.5	1.5	1.0

Table 30 cont'd

date	14-May			21-May			27-May			4-Jun			11-Jun			18-Jun			25-Jun			2-Jul			9-Jul			16-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum					1												1		1			1			1	1	1	1	1	1
Dinobryon balticum																														
Ebria tripartita																								1				1		
Euglenoid	1																													
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	3	3	4	5	3	4	3	4	2	3	3	2	3	2	4	2	3	2	5	4	4	2	6	1	3	4	2	3	2	4
Zooplankton																														
Amoebae																														1
Appendicularian																						1								
Ciliate	2	2	2	1		1	1			2	1	1	2			2		1	3				2			1	1	3	1	2
Copepod																1														
Nauplius			1																											1
Pluteus																														
Rotifer													1	1																
Tintinnid																		1	1			1								2
Zoea																														
other																														
Dominant Species/Group																														
name	*Pseudonitzschia sp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira sp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros debilis*	*Chaetoceros debilis*	*Chaetoceros debilis*	*Chaetoceros debilis*	*Chaetoceros debilis*	*Chaetoceros debilis*	*Pseudonitzschia sp.*	*Chaetoceros debilis*	*Pseudonitzschia sp.*	*Chaetoceros spp.*	*Thalassionema nitzschioides*	*Pseudonitzschia sp.*	*Chaetoceros spp.*	*Chaetoceros debilis*	*Nitzschioid spp.*
count (cells/mL)	1050	~130	~80	~50	~35	~30	~500	~180	~100	~120	~80	~50	4000	1900	~800	3200	4100	2000	~500	~800	~300	~450	~800	~150	~200	~15	~20	2800	~930	~950
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	84	73	60	85	84	80	85	94	90	60	85	87	80	85	90	83	92	90	80	93	95	95	90	96	90	85	85	75	91	87
Dinoflagellates	10	20	32	5	10	0	10	4	8	25	5	5	17	11	8	10	5	5	10	5	0	2	5	3	5	5	5	10	5	5
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	3	3	3	5	6	10	2	2	2	5	5	5	2	2	1	2	3	2	5	2	5	1	2	1	5	5	5	5	2	5
Zooplankton	3	4	5	5	0	10	3	0	0	10	5	3	1	2	1	5	0	3	5	0	0	2	3	0	0	5	5	10	2	3
Biomass	2.5	2.5	2.0	2.0	2.0	1.5	3.5	3.0	2.5	2.0	1.5	1.0	4.0	3.5	3.0	3.5	3.5	3.0	2.0	2.0	2.0	3.0	3.5	3.0	2.5	1.5	1.5	4.0	3.0	3.5

Table 30 cont'd

date	23-Jul			30-Jul			6-Aug			13-Aug			20-Aug			27-Aug			3-Sep			10-Sep			17-Sep			24-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum												1	1	1	1				1	1	1	1	1			1	1		1	1
Dinobryon balticum																														
Ebria tripartita							1																							
Euglenoid																														
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	3	2	3	3	3	4	2	3	3	4	3	1	4	4	3	3	2	2	4	4	4	3	4	2	1	3	2	1	1	1
Zooplankton																														
Amoebae																														
Appendicularian																														
Ciliate	2	1	3	2	1	2	2	1	2	2	2	1	3	4	1	2		2	5	5	2	3	2		2	1		2		
Copepod																														
Nauplius																						1								
Pluteus																														
Rotifer																														
Tintinnid										1				1							1	1					1			
Zoea																														
other																					1									
Dominant Species/Group																														
name	*Chaetoceros spp.*	*Chaetoceros debilis*	*Chaetoceros debilis*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Thalassionema nitzschioide*	*Thalassiosira sp.*	*Thalassionema nitzschioide*	ciliates + tintinnids	dinoflagellates	*Mesodinium rubrum*	ciliates	ciliates & tintinnids	Naviculoid sp.	ciliates	diatoms	ciliates	ciliates	ciliates	*Pseudonitzschia sp.*	*Chaetoceros spp.*	*Melosira moniliformis*	*Melosira moniliformis*	*Chaetoceros spp.*	*Chaetoceros debilis*	*Chaetoceros debilis*	*Skeletonema costatum*	*Rhizosolenia stolterfothii*	*Rhizosolenia stolterfothii*
count (cells/mL)	~20	~90	~70	~400	~150	~85	~960	~30	~20	~5	~5	~5	~20	~10	~3	~10	~6	~3	~20	~10	~240	4200	~13	~10	~40	~25	~15	~100	~20	~10
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	80	60	70	80	80	80	90	75	60	10	5	10	10	30	45	10	60	0	7	1	75	90	75	58	90	60	65	92	70	80
Dinoflagellates	5	30	10	10	10	5	2	15	20	35	55	30	20	25	35	10	10	0	10	24	10	5	10	40	4	30	20	4	28	10
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	5	5	5	5	5	5	2	5	10	10	5	10	20	10	10	20	30	40	3	5	5	2	5	2	1	5	10	1	2	10
Zooplankton	10	5	15	5	5	10	6	5	10	45	35	50	50	35	10	60	0	60	80	70	10	3	10	0	5	5	5	3	0	0
Biomass	1.5	1.5	1.5	2.0	1.5	1.5	2.5	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.0	1.0	1.0	2.0	1.5	3.0	4.5	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5

Table 30 cont'd

date	1-Oct			8-Oct			15-Oct			22-Oct			29-Oct			5-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																		
Cryptomonads																		
Dictyocha speculum		1		1											1			
Dinobryon balticum																		
Ebria tripartita																		
Euglenoid																		
Phaeocystis pouchetii																		
Radiolarian																		
unid. Nanoflagellates	3	3	2	2	2	3	3	2	2	4	2	3	2	3	2	3	2	5
Zooplankton																		
Amoebae																		
Appendicularian																		
Ciliate	1	1		1		2		1		2		1	1		4			
Copepod																		
Nauplius																		
Pluteus																		
Rotifer																		
Tintinnid				1											1			
Zoea																		
other			1															
Dominant Species/Group																		
name	gymnodinioid dinoflagellates	*Thalassiosira sp.*	diatoms	*Dictyocha speculum*	dinoflagellates	gymnodinioid dinoflagellates	*Thalassiosira sp.*	*Coscinodiscus sp.*	*Thalassiosira sp.*	ciliates	*Melosira sulcata*	nothing dominant	dinoflagellates	diatoms	*Thalassiosira spp.*	dinoflagellates	*Skeletonema costatum*	dinoflagellates
count (cells/mL)	~10	~4	~2	~2	~3	~4	~6	~2	~6	~4	~20		~5	~2	tow	~2	~3	~1
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	15	40	85	0	45	0	60	50	80	15	50	25	20	40	70	0	45	0
Dinoflagellates	75	20	5	20	50	48	30	30	10	30	30	25	50	30	5	50	10	40
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	5	20	5	40	5	5	10	10	10	20	20	25	10	30	20	50	45	60
Zooplankton	5	20	5	40	0	47	0	10	0	35	0	25	20	0	5	0	0	0
Biomass	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Table 31 : Diatoms in Homfray Creek samples.

date	08-Mar			15-Mar			22-Mar			30-Mar			05-Apr			12-Apr			19-Apr			26-Apr			03-May			10-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.																														
Biddulphia sp.																														
Campylosiral Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne			1						1																					
Chaetoceros convolutus				1	1	20																								1
Chaetoceros sp.	1		1																			2	3	2	2	4	3	3	2	3
Corethron hystrix	1	1	1	1	1	1																1	1	1		1			1	
Coscinodiscus sp.																														
Cylindrotheca closterium																														
Dactylisolen sp.																														
Detonula pumila																											1			
Ditylum brightwellii																														
Eucampia zoodiacus																														
Grammatophora sp.													1	1	1															
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus																														1
Leptocylindrus minimus																														
Licmophora sp.																														
Melosira sp.																							1	1	1					
Navicula sp.																1											1			
Nitzschioid sp.			1																						1	1	1	1	1	1
Pleurosigma/ Gyrosigma sp.																														
Rhizosolenia setigera																														
Rhizosolenia sp. (pointy)																														
Rhizosolenia sp. (blunt)					1																					1	1	1	1	1
Rhizosolenia stolterfothii																									1	1	1	1		1
Skeletonema costatum																							1	1		1		1	1	1
Stephanopyxis sp.		1																												
Tabellaria sp.																														
Thalassionema sp.																														
Thalassiosira sp.	1	1	1	2	3	3	1	1	1	1												1				1	1	1	1	1
Thalassiothrix sp.																														

Table 31 cont'd

date	17-May			24-May			31-May			14-Jun			12-Jul			19-Jul			26-Jul			16-Aug			23-Aug			06-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																					1									
Asterionella japonica		1	1		1	1														1	1									
Bacteriastrum sp.																														
Biddulphia sp.		1	1		3	2																								
Campylosiral Plagiogramma					1																									
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus		1	1					1												1	1									
Chaetoceros sp.	5	4	4		1		2	1	1				2	1	4	1		1	2	4	5				1	1		1		1
Corethron hystrix																					1									
Coscinodiscus sp.																												1		
Cylindrotheca closterium																								1						
Dactyliseten sp.													1	1	1	1	1		1		1									
Detonula pumila					1				1																					
Ditylum brightwellii																				1						1				
Eucampia zoodiacus		1				1	1																							
Grammatophora sp.																	1	1												1
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus													1							1										
Leptocylindrus minimus																														
Licmophora sp.					1	1				1						1	1	1		1										
Melosira sp.							1										1	1												
Navicula sp.													1		1	1	1													
Nitzschioid sp.	1	1	1	1	1	1		1					1	1	1		2	1												
Pleurosigma/ Gyrosigma sp.																														
Rhizosolenia setigera																					1									
Rhizosolenia sp. (pointy)		1			1																									
Rhizosolenia sp. (blunt)	1	1	1	1	1																					1		1	1	1
Rhizosolenia stolterfothii	1	1																												
Skeletonema costatum	1	1	1	1	1	1	1		1					1	1						1								1	
Stephanopyxis sp.																														
Taballaria sp.																														
Thalassionema sp.	1		1	1	1														1		1								1	
Thalassiosira sp.	1	2	1		1	1	1	1	1						2	1					2			1	1	1	1			
Thalassiothrix sp.																														

Table 31 cont'd

date	20-Sep			27-Sep			04-Oct			18-Oct			01-Nov			15-Nov			29-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																					
Achnanthes sp.																					
Amphiproral Tropidoneis			1																		
Asterionella japonica																					
Bacteriastrum sp.																					
Biddulphia sp.																					
Campylosiral Plagiogramma																					
Cerautalina sp.																					
Chaetoceros concavicorne																					
Chaetoceros convolutus																					
Chaetoceros sp.	7	7	5	3	1																
Corethron hystrix																					
Coscinodiscus sp.									1			1									
Cylindrotheca closterium																					
Dactylisolen sp.	1																				
Detonula pumila																					
Ditylum brightwellii		1	1							1											
Eucampia zoodiacus		1	1																		
Grammatophora sp.			1																		
Hemialus sp.																					
Lauderia annulata																					
Leptocylindrus danicus		1																			
Leptocylindrus minimus																					
Licmophora sp.																					
Melosira sp.				1	1																
Navicula sp.			1						1												
Nitzschioid sp.		1	1	1	1																
Pleurosigma/ Gyrosigma sp.																					
Rhizosolenia setigera																1					
Rhizosolenia sp. (pointy)	1																				
Rhizosolenia sp. (blunt)	1	1	1																		
Rhizosolenia stolterfothii		1	1														1				
Skeletonema costatum	1	1	1						1												
Stephanopyxis sp.																					
Taballaria sp.																					
Thalassionema sp.		1	1						1												
Thalassiosira sp.		1	1	1	1					1		1	1								
Thalassiothrix sp.																					

Table 32 : Dinoflagellates in Homfray Creek samples.

date	08-Mar			15-Mar			22-Mar			30-Mar			05-Apr			12-Apr			19-Apr			26-Apr			03-May			10-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.					1																									
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																									1					
Ceratium lineatum																													1	
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																									1					1
Cochlodinium sp.																														
Dinophysioid sp.																														
Gonyaulacoid sp.																														
Gymnodinioid sp.		2	1	2	1	1	1		1	1	1	1	1	1	1	1		1	1	2	1	2	1	2	4	2	3	2	6	5
Gymnodinium galatheanum																														
Gyrodinium spirale-type			1	1		1	1	1																	2		1	1		1
Heterocapsa triquetra																														
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans										1																				
Prorocentrum minimum																														
Prorocentrum sp.																														
Protoperidinioid sp.																		1							1			1		1
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 32 cont'd

date	17-May			24-May			31-May			14-Jun			12-Jul			19-Jul			26-Jul			16-Aug			23-Aug			06-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.																														
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus										1																1	1		1	1
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.																														
Dinophysioid sp.					1		1			2	1	1		2									1		1	1	1	1	1	1
Gonyaulacoid sp.																												1		1
Gymnodinioid sp.	5	6	5		3	3	5	3	3	4	2	3	1	3	2	3	2	2		3	1	4	2	2	4	6	3	3	4	4
Gymnodinium galatheanum																														
Gyrodinium spirale-type	1	1			1		1																							
Heterocapsa triquetra	1	1					1	1	1																					
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.										1																				
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum minimum																														
Prorocentrum sp.		1																												
Protoperidinioid sp.		1		1	1	1	3	2	2	2		2	1	3	2	2	1	1			1	1			2		1	1		
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 32 cont'd

date	20-Sep			27-Sep			04-Oct			18-Oct			01-Nov			15-Nov			29-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																					
Alexandrium sp.																					
Amphidinium sp.			1	1																	
Ceratium divericatum																					
Ceratium furca																					
Ceratium fusus		1	1	1	1	1	1	1	1												
Ceratium lineatum																					
Ceratium pentagonum																					
Ceratium sp.																					
Cochlodinium polykrikoides		1																			
Cochlodinium sp.																					
Dinophysioid sp.				1					1												
Gonyaulacoid sp.				1																	
Gymnodinioid sp.	5	5	4	2	3	1	5	3	3	2	2	4	3	1	2	3	2	4	3	4	2
Gymnodinium galatheanum																					
Gyrodinium spirale-type		1	2										1								
Heterocapsa triquetra										1											
Noctiluca scintillans																					
Noctilucoid sp.																					
Oxyrrhis marina																					
Oxytoxum sp.																					
Polykrikos sp.		1																			
Prorocentrum gracile																					
Prorocentrum micans																					
Prorocentrum minimum																					
Prorocentrum sp.																					
Protoperidinioid sp.		1	1																		
Pyrocystis lunula																					
Raphidophytes																					
Heterosigma akashiwo																					

Table 33 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Homfray Creek samples.

date	08-Mar			15-Mar			22-Mar			30-Mar			05-Apr			12-Apr			19-Apr			26-Apr			03-May			10-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum																												1		1
Dinobryon balticum																														
Ebria tripartita																												1		
Euglenoid										1																				
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	3	4	5	5	4	5	4	5	4	6	6	5	3	3	3	4	4	4	4	5	4	3	4	3	5	4	3	5	3	4
Zooplankton																														
Amoeba																						1								
Appendicularian																									1					
Ciliate	3	2	2	2	2	3	3	2	2	3	2	3	4	3	3	3	5	4	2	2	2	3	3	3	5	3	1	2	2	4
Copepod																							1	1						
Nauplius																														
Pluteus																														
Rotifer																														
Tintinnid						1																			1				1	1
Zoea													1																	
other																									1					
Dominant Species/Group																														
name	ciliates	diatoms	*Thalassiosira sp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	ciliates	ciliates	ciliates	ciliates	ciliates	ciliates	ciliates	ciliates	*Grammatophora sp.*	ciliates	ciliates	ciliates	ciliates	ciliates	ciliates	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Gyrodinium spirale*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*
count (cells/mL)	~40	~20	~15	~320	~280	~100	~25	~15	~20	~20	~10	~6	~40	~10	~680	~40	~25	~30	~10	~8	~14	~15	~30	~30	~35	1300	1200	5100	5600	2500
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	35	45	65	70	75	60	5	10	20	10	0	0	25	30	73	10	0	0	0	0	0	45	50	50	15	85	80	85	70	60
Dinoflagellates	0	15	10	15	10	15	15	20	10	20	30	20	5	10	2	5	0	15	20	30	20	15	10	10	65	5	15	10	26	30
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	15	5	3	5	5	5	10	10	10	20	10	20	5	5	1	25	20	15	20	20	20	10	5	5	1	2	2	2	1	2
Zooplankton	50	35	22	10	10	20	70	60	60	50	60	60	65	55	24	60	80	70	60	50	60	30	35	35	19	8	3	3	3	8
Biomass	1.5	1.5	2.0	3.0	3.0	2.5	1.0	1.0	1.0	1.5	1.0	1.0	3.0	1.5	2.5	1.5	1.5	1.5	1.0	1.0	1.0	1.5	2.0	2.0	3.5	3.0	3.0	3.5	3.5	3.0

Table 33 cont'd

date	17-May			24-May			31-May			14-Jun			12-Jul			19-Jul			26-Jul			16-Aug			23-Aug			06-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum				1			1		1	1	1	1												1	1	1	1	1	1	1
Dinobryon balticum																														
Ebria tripartita																														
Euglenoid			1																										1	
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	4	3	5	2	3	3	3	2	3	3	3	2	3	3	2	3	1	2	2	3	3	2	2	3	2	3	3	3	2	3
Zooplankton																														
Amoeba																						1								
Appendicularian																														
Ciliate	2	5	1	2	2	1	3	2	1	2	2	3	5	2	3	1		1	2	1	3	1	1	1	1	2	2		4	2
Copepod	1																													
Nauplius				1			1																			1	1		1	
Pluteus																														
Rotifer							1																							
Tintinnid	1				1		1		2	1	1							1		1										
Zoea																														
other																	1					1	1							
Dominant Species/Group																														
name	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Plagiogramma sp.*	*Chaetoceros spp.*	*Heterocapsa triquetra*	*Heterocapsa triquetra*	*Gymnodinium spp.*	*Dictyocha speculum*	*Dictyocha speculum*	*Dictyocha speculum*	ciliates	dinoflagellates	*Skeletonema costatum*	gymnodinioid dinoflagellates	*Grammatophora sp.*	*Melosira sp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	dinoflagellates	dinoflagellates	*Thalassiosira sp*	*Dictyocha speculum*	*Dictyocha speculum*	*Dictyocha speculum*	*Rhizosolenia fragilissima*	*Rhizosolenia fragilissima*	*Rhizosolenia fragilissima*
count (cells/mL)	12000	8000	7500	~100	~1000	~120	~30	~15	~40	~32	~30	~15	~40	~25	~150	~8	~230	~500	~30	~20	~30	~10	~5	~5	~4	~25	~14	~250	~40	~40
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	85	75	80	55	60	85	13	15	25	5	0	0	30	20	80	43	90	92	75	75	85	5	0	45	30	20	5	90	60	60
Dinoflagellates	10	15	16	10	25	10	50	58	60	50	30	40	5	55	10	50	5	5	0	15	5	45	50	15	40	20	20	5	30	33
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	2	2	2	10	5	2	2	2	3	35	55	30	5	5	3	2	1	1	5	5	3	10	10	30	29	55	70	5	5	5
Zooplankton	3	8	2	25	10	3	35	25	12	10	15	30	60	20	7	5	4	2	20	5	7	40	40	10	1	5	5	0	5	2
Biomass	4.0	3.5	3.0	1.5	2.5	2.0	3.0	2.0	2.0	2.0	1.5	1.5	2.0	2.0	2.5	1.5	3.5	4.0	1.5	1.5	2.0	1.0	1.0	1.0	1.5	2.5	2.0	3.5	3.0	3.0

Table 33 cont'd

date	20-Sep			27-Sep			04-Oct			18-Oct			01-Nov			15-Nov			29-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																					
Cryptomonads																					
Dictyocha speculum	1	1	1	1		1		1													
Dinobryon balticum																					
Ebria tripartita																					
Euglenoid							1														
Phaeocystis pouchetii																					
Radiolarian																1					
unid. Nanoflagellates	4	4	2	3	3	2	4	4	3	2	3	2	5	4	2	4	3	4	3	3	2
Zooplankton																					
Amoeba																					
Appendicularian																					
Ciliate	1	4	2	4	3	4	1	3	1	3	2	1				2	1		1		
Copepod								1													
Nauplius																			1		
Pluteus																					
Rotifer																					
Tintinnid																					
Zoea																					
other				1					1			1									
Dominant Species/Group																					
name	*Rhizosolenia fragilissima*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Ceratium fusus*	*Ceratium fusus*	*Ceratium fusus*	*Ceratium fusus*	*Ceratium fusus*	*Ceratium fusus*	ciliates	ciliates	*Coscinodiscus sp.*	gymnodinioid dinoflagellates	ciliates	ciliates	*Rhizosolenia setigera*	ciliates	dinoflagellates	dinoflagellates	dinoflagellates	dinoflagellates
count (cells/mL)	~90	~840	~490	~18	~2	~1	~5	~1	~1	~10	~3	~1	~20	~11	~7	~1	~3	~5	~10	~8	~2
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	90	50	50	25	10	0	0	0	45	35	0	59	5	0	0	50	0	0	0	0	0
Dinoflagellates	7	15	8	70	85	50	95	82	50	4	5	30	60	5	9	4	20	80	60	70	70
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	2	30	40	1	1	5	1	3	1	1	1	1	5	10	1	1	10	20	10	30	30
Zooplankton	1	5	2	4	4	45	4	15	4	60	94	10	30	85	90	45	70	0	30	0	0
Biomass	3.5	3.5	3.5	3.0	1.0	1.0	2.0	1.0	1.5	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Table 34 : Diatoms in Conville Bay samples.

date	22-Mar			29-Mar			05-Apr			11-Apr			18-Apr			25-Apr			02-May			09-May			16-May			23-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																									1			1	1	
Asterionella japonica																														
Bacteriastrum sp.															1															
Biddulphia sp.																														
Campylosira/Plagiogramma																									1	1	1			
Cerautalina sp.																									1	1	1			
Chaetoceros concavicorne																												1		1
Chaetoceros convolutus																														
Chaetoceros sp.		2	2				2	3	2	2	2	2	6	4	6	2	2	2		1	1	3		4	8	9	7	8	7	6
Corethron hystrix																														1
Coscinodiscus sp.																						1		1						
Cylindrotheca closterium													1									1			1		1			
Dactylisolen sp.																														
Detonula pumila													1	1	1			1				1	1	1	1	1	1	1	1	1
Diplopsalis sp.																														
Ditylum brightwellii			1																										1	
Eucampia zoodiacus																														
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus																	1								1	1	1		1	
Leptocylindrus minimus																														
Licmophora sp.														1											1	1	1			
Melosira sp.													1	1	1															
Navicula sp.							1	1						2	1						1	1	1	1	1	1	1			
Nitzschioid sp.	1												1	1											1	1	1	1	1	1
Pleurosigma/ Gyrosigma sp.																														
Rhizosolenia setigera		1																												
Rhizosolenia sp. (pointy)																														
Rhizosolenia sp. (blunt)										1																1				
Rhizosolenia stolterfothii																										1				
Skeletonema costatum																				1					1	1		1	1	
Stephanopyxis sp.																											1			
Striatella/Rhabdonema																									1	1				
Thalassionema sp.	1																									1		1		
Thalassiosira sp.	1	2	1	1	1	2			1	1	1	2			1	1	1	1	1	1		1	1	1	2	2	2	1	1	1

Table 34 cont'd

date	30-May			06-Jun			13-Jun			20-Jun			27-Jun			04-Jul			11-Jul			18-Jul			25-Jul			01-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																														
Asterionella japonica	1	1	1	1	1	1													1			1	1	1				1	1	1
Bacteriastrum sp.																														
Biddulphia sp.			1																											
Campylosira/Plagiogramma																														
Cerautalina sp.																						1						1		
Chaetoceros concavicorne																						1							1	
Chaetoceros convolutus	1	1	1		1													1				1							1	
Chaetoceros sp.	8	6	6	3	3	4				1	1		3	5	3	2	1	1	7	5	3	8	10	6	2		1	7	9	9
Corethron hystrix		1			1									1							1									1
Coscinodiscus sp.																										1	1			
Cylindrotheca closterium	1	1		1			1	1		1	1								1											
Dactyliosolen sp.																	1		1	1	1		1					1		
Detonula pumila	1	1	1			1																		1						
Diplopsalis sp.																						1								
Ditylum brightwellii	1	1	1		1											1							1	1					1	1
Eucampia zoodiacus	1	1	1	1	1	1							1			1		1	1	1		1	1	1					1	1
Grammatophora sp.																							1							
Hemialus sp.																														
Lauderia annulata																			1											
Leptocylindrus danicus	1	1	1	1	1	1								1			1			1	1		1	1				1	1	1
Leptocylindrus minimus																														
Licmophora sp.																1					1							1		
Melosira sp.																														
Navicula sp.			1	1									1	1		1				1						1				
Nitzschioid sp.	1	1	1	1	1	1				1	1		1	1	1			1	3	2	2	1	1	1	1	1	1	1	1	1
Pleurosigma/ Gyrosigma sp.																			1		1									1
Rhizosolenia setigera				1	1	1	1							1	1			1		1	1	1	1	1	1			1	1	1
Rhizosolenia sp. (pointy)	1		1																											
Rhizosolenia sp. (blunt)		1																		1			1					1		
Rhizosolenia stolterfothii	1	1	1			1																								
Skeletonema costatum	1	1	1	1	1	1						1	1	1	1			1	1	1	1	1	1	1	1			1	1	1
Stephanopyxis sp.		1	1																										1	
Striatella/Rhabdonema																														
Thalassionema sp.	1	1	1		1	2			1	1			1	1						1		1		1				1	1	1
Thalassiosira sp.	1	2	2		2	1			1		1	1	1	1	1	1		1	2	3	1	2	1	2	2	1	1	2	2	2

Table 34 cont'd

date	08-Aug			15-Aug			22-Aug			29-Aug			12-Sep			19-Sep			26-Sep			25-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																								
Achnanthes sp.								1					1											
Amphiprora/ Tropidoneis														1		1	1							
Asterionella japonica																1	1					1		
Bacteriastrum sp.																								
Biddulphia sp.																								
Campylosira/Plagiogramma																								
Cerautalina sp.																								
Chaetoceros concavicorne																								
Chaetoceros convolutus											1		1			1								
Chaetoceros sp.						1				1		2	6	6	5	6	9	6	3	5	3			
Corethron hystrix																								
Coscinodiscus sp.				1						1					1		1							
Cylindrotheca closterium															1	1								
Dactyliosolen sp.																								
Detonula pumila																								
Diplopsalis sp.																								
Ditylum brightwellii			1				1	1	1					1		1	1	1						
Eucampia zoodiacus						1	1									1								
Grammatophora sp.																								
Hemialus sp.																								
Lauderia annulata														1	1									
Leptocylindrus danicus							1										1		1					
Leptocylindrus minimus																								
Licmophora sp.		1		1	1								1		1									
Melosira sp.					1			1				1												1
Navicula sp.						1																		
Nitzschioid sp.				1	1		1	1					1			1		1						
Pleurosigma/ Gyrosigma sp.							1																	
Rhizosolenia setigera					1											1								
Rhizosolenia sp. (pointy)																1				1				
Rhizosolenia sp. (blunt)										1	1	1		1		1	1	1					1	
Rhizosolenia stolterfothii													1			1	1	1						
Skeletonema costatum										1			1	1	1	1	1	1						
Stephanopyxis sp.																								
Striatella/Rhabdonema																								
Thalassionema sp.																	1							
Thalassiosira sp.	1	1		1	1	1	1	1	1				1	1	1	1	2	2	1		1		1	

Table 35 : Dinoflagellates in Conville Bay samples.

date	22-Mar			29-Mar			05-Apr			11-Apr			18-Apr			25-Apr			02-May			09-May			16-May			23-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.																											1			
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.																														
Dinophysioid sp.																														
Gonyaulacoid sp.																						1			1		1			
Gymnodinioid sp.	2	1	1			1				2	1		3		2	2	2	3	1	3	2	5	5	5	8	6	7	3	4	2
Gymnodinium galatheanum																														
Gyrodinium spirale-type			1												1	1			1			1	1	1	2	3	2			
Heterocapsa triquetra																														
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum sp.																									1					
Protoperidinioid sp.	1													3		1	1		1			2	3	1	5	2	6	2		
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 35 cont'd

date	30-May			06-Jun			13-Jun			20-Jun			27-Jun			04-Jul			11-Jul			18-Jul			25-Jul			01-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.	1	1																					1						1	1
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																	1						1							
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.														1																
Cochlodinium polykrikoides																							1							
Cochlodinium sp.																														
Dinophysioid sp.			1										1		1		1					2								
Gonyaulacoid sp.																														
Gymnodinioid sp.	5	5	4	3	2	3		1	1	2	1	1	3	5	2	5	2	3	5	4	2	2	3	3	4	2	2	3	5	3
Gymnodinium galatheanum																														
Gyrodinium spirale-type	1													1	1				1					1				1	1	
Heterocapsa triquetra	1				1											1		1							1	1				
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.					1																									
Prorocentrum gracile																1									1					
Prorocentrum micans										1																				
Prorocentrum sp.																														
Protoperidinioid sp.	2	2	3	2	3	2	2		1	2	1	2	1	1	2				1	1	1	2	3	2	2		1	2	3	4
Pyrocystis lunula																							1							
Raphidophytes																														
Heterosigma akashiwo																1	1	1	1	1	1									

Table 35 cont'd

date	08-Aug			15-Aug			22-Aug			29-Aug			12-Sep			19-Sep			26-Sep			25-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																								
Alexandrium sp.											1													
Amphidinium sp.													1						1	1				
Ceratium divericatum																								
Ceratium furca																								
Ceratium fusus							1		1											1				
Ceratium lineatum																								
Ceratium pentagonum																								
Ceratium sp.									1															
Cochlodinium polykrikoides										1	1		1			1								
Cochlodinium sp.																								
Dinophysioid sp.				1	1		1	1	1	1	1	1				2	1		1	1	1	1		1
Gonyaulacoid sp.				2			1	1	1	1	1			1				1				1		
Gymnodinioid sp.	3	3	3	7	2	5	6	5	4	4	4	1	6	5	3	4	5	2	6	5	5	2	3	3
Gymnodinium galatheanum																								
Gyrodinium spirale-type	1	2	1	2	2					2	2	1	2		2	1	1	1	2		1			
Heterocapsa triquetra								1	1					1				1						
Noctiluca scintillans																								
Noctilucoid sp.																								
Oxyrrhis marina																								
Oxytoxum sp.																								
Polykrikos sp.			1																					
Prorocentrum gracile	1			1	1		1																	
Prorocentrum micans														1		1				1				
Prorocentrum sp.																								
Protoperidinioid sp.		1	2	5	2		3	2	3	6	1		1			3	3	1	1	1				1
Pyrocystis lunula																								
Raphidophytes																								
Heterosigma akashiwo					1					1			1			1	1							

Table 36 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Conville Bay samples.

date	22-Mar			29-Mar			05-Apr			11-Apr			18-Apr			25-Apr			02-May			09-May			16-May			23-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum																													1	
Dinobryon balticum																														
Ebria tripartita																														
Euglenoid													1	1	1	1	1								1	1	1			
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	4	6	3	5	4	5	3	4	2	3	4	3	3	4	5	4	4	4	3	4	4	5	5	5	4	6	4	4	4	4
Zooplankton																														
Appendicularian																										1				
Ciliate	1	1		2	1	1		1	1		1	1	2	4	4	3	1	2	3	1	1	3	3	4	10	8	6	2	1	1
Copepod																														
Nauplius										1			1												1					
Pluteus																														
Rotifer																										1				
Tintinnid																				1					2	1				
Zoea																														
other							1							1																
Dominant Species/Group																														
name	diatoms	*Thalassiosira spp.*	*Chaetoceros spp.*	*Thalassiosira sp.*	*Thalassiosira sp.*	*Thalassiosira spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros debilis*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Thalassiosira spp.*	*Chaetoceros debilis*	*Chaetoceros debilis*	*Chaetoceros debilis*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	ciliates	*Gymnodinium spp.*	*Gymnodinium spp.*	*Detonula pumila*	*Detonula pumila*	*Chaetoceros spp.*	*Pseudonitzschia sp*	*Pseudonitzschia sp*	*Pseudonitzschia sp*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*
count (cells/mL)	~8	~25	~18	~5	~5	~10	~4	~60	~70	~20	~10	~8	3700	3500	2600	~40	~30	~50	~10	~30	~10	~50	~20	~100	1700	1400	~500	~350	~200	~300
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	55	85	85	50	60	70	60	70	90	80	70	75	95	95	95	50	50	55	5	30	20	55	55	55	70	70	65	80	86	80
Dinoflagellates	30	5	10	0	0	10	0	0	0	10	10	0	2	2	2	20	20	20	45	55	70	25	32	30	12	12	20	17	10	10
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	5	5	5	10	20	5	20	20	5	5	10	15	1	1	1	10	20	10	5	5	5	5	3	3	3	3	3	1	2	5
Zooplankton	10	5	0	40	20	15	20	10	5	5	10	10	2	2	2	20	10	15	45	10	5	15	10	12	15	15	12	2	2	5
Biomass	1.0	2.0	1.5	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.0	1.0	4.0	3.5	3.5	2.0	2.0	2.0	1.5	2.0	1.5	2.0	1.5	2.0	3.5	3.5	3.5	3.0	2.5	2.5

Table 36 cont'd

date	30-May			06-Jun			13-Jun			20-Jun			27-Jun			04-Jul			11-Jul			18-Jul			25-Jul			01-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum				1	1		1	1		1	1	1			1				1	1	1	1	1	1	1	1				
Dinobryon balticum																														
Ebria tripartita						1							1	1	1									1	1			1		
Euglenoid			1														1													
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	3	3	4	3	3	2	5	2	3	2	1	3	4	3	3	2	2	1	4	3	3	3	3	3	3	2	2	3	3	3
Zooplankton																														
Appendicularian		1																												
Ciliate	4	2	1	1	1	1	3	2	3	4	2	4	2	3	3	2	2	2	3	2	2	1	1	1	3	3	3	2	2	1
Copepod																														
Nauplius																														
Pluteus																														
Rotifer														1																
Tintinnid	1	1		1		2	2		1	1		1	1	1	1			1				1	1					1		1
Zoea																														
other																														
Dominant Species/Group																														
name	*Chaetoceros spp.*	*Chaetoceros spp.*	*Thalassiosira spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	ciliates	ciliates	ciliates	*Dictyocha speculum*	*Thalassiosira sp.*	*Dictyocha speculum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	gymnodinioid dinoflagellate	*Heterosigma akashiwo*	*Heterosigma akashiwo*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Skeletonema costatum*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	gymnodinioid dinoflagellates	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*
count (cells/mL)	1500	~800	~530	~200	~830	~150	~50	~30	~25	~16	~10	~14	~300	~450	~300	~20	~30	~15	~690	~260	~80	1400	1900	~800	~30	~10	~6	2700	3000	2800
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	70	80	75	70	85	80	5	5	15	30	60	20	75	65	70	50	55	70	80	80	88	90	85	84	25	40	40	83	80	80
Dinoflagellates	20	15	20	23	12	16	10	5	15	20	20	10	10	15	15	41	25	15	14	10	5	8	10	10	40	25	30	10	15	16
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	5	15	10	2	5	1	0	0	0	0	0	0	0	0	0
Other Flagellates	2	2	3	5	2	2	20	20	15	30	5	50	4	4	5	1	1	1	2	3	5	1	4	5	15	10	10	3	2	2
Zooplankton	8	3	2	2	1	2	65	70	55	20	15	20	11	15	10	3	4	4	2	2	1	1	1	1	20	25	20	4	3	2
Biomass	4.0	3.5	3.5	2.5	3.0	2.5	1.5	1.5	1.5	2.0	1.5	1.5	2.5	3.0	2.5	2.0	2.0	2.0	3.5	3.0	2.0	3.5	3.5	3.0	2.5	1.5	1.0	4.0	4.0	4.0

Table 36 cont'd

date	08-Aug			15-Aug			22-Aug			29-Aug			12-Sep			19-Sep			26-Sep			25-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																								
Cryptomonads																								
Dictyocha speculum	1	1		1	1	1	1	1	1	1	1	1	1		1	1			1	1	1	1		
Dinobryon balticum																								
Ebria tripartita																								
Euglenoid								1	1															
Phaeocystis pouchetii																								
Radiolarian																								
unid. Nanoflagellates	5	3	1	6	2	3	3	4	3	2	3	3	3	3	3	5	2	3	2	2	2	3	3	4
Zooplankton																								
Appendicularian																								
Ciliate	3	1		6	3	2	4	4	5	3	7	2	5	3	1	5	2	2	2	1	3	3		4
Copepod										1														
Nauplius	1									1														
Pluteus																								
Rotifer							1	1																
Tintinnid	2	1		1		1							2			1		1						
Zoea																								
other				1							1							1						
Dominant Species/Group																								
name	ciliates	gymnodinioid dinoflagellates	gymnodinioid dinoflagellates	dinoflagellates	dinoflagellates	dinoflagellates	gymnodinioid dinoflagellates	gymnodinioid dinoflagellates	gymnodinioid dinoflagellates	*Gymnodinium sanguineum*	*Gymnodinium sanguineum*	*Rhizosolenia fragilissima*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Gymnodinium sanguineum*	*Dictyocha speculum*	*Gymnodinium sanguineum*	*Asterionella japonica*	dinoflagellates	dinoflagellates
count (cells/mL)	~8	~20	~30	~220	~30	~20	~60	~40	~25	~30	~10	~5	1100	~610	~500	1700	1560	1000	~14	~16	~5	~50	~10	~10
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	5	20	27	5	9	20	40	30	10	10	15	40	80	80	90	65	70	70	25	14	25	55	45	20
Dinoflagellates	40	55	70	50	45	40	45	45	50	75	60	45	15	17	7	28	27	25	48	45	40	15	45	35
Raphidophytes	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	15	10	3	10	20	20	3	10	10	5	5	5	2	1	2	2	1	1	25	40	30	5	10	10
Zooplankton	40	15	0	35	25	20	12	15	30	9	20	10	3	2	1	5	2	4	2	1	5	25	0	35
Biomass	1.0	1.5	1.5	2.5	2.0	1.5	2.5	2.0	2.0	3.0	2.5	1.5	3.5	3.5	3.0	4.0	3.5	3.5	2.5	2.5	2.0	2.0	1.0	1.5

Table 37 : Diatoms in Glacial Creek samples.

date	04-Jan			11-Jan			18-Jan			25-Jan			01-Feb			08-Feb			15-Feb			22-Feb			01-Mar			08-Mar		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.																														
Biddulphia sp.																														
Campylosira/Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne																						1	1	1	1	1	1	1	1	1
Chaetoceros convolutus																									2	2	1	2	2	2
Chaetoceros sp.																						1		1	1	1	1	1	1	1
Corethron hystrix																									1					
Coscinodiscus sp.																														
Cylindrotheca closterium																														
Dactylisolen sp.																														
Detonula pumila																														
Ditylum brightwellii												1																		
Eucampia zoodiacus																														
Fragilariopsis sp.																														
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus																									1			1	1	
Leptocylindrus minimus																														
Licmophora sp.																						1			1					
Melosira sp.																												1		
Navicula sp.																														
Nitzschioid sp.					1																	1		1	1		1	1	1	1
Pleurosigma/ Gyrosigma sp.																														
Rhizosolenia setigera																														
Rhizosolenia sp. (pointy)																												1	1	
Rhizosolenia sp. (blunt)																									1	1	1	1		
Rhizosolenia stolterfothii													1					1				1		1	1	1	1	1	1	1
Skeletonema costatum																												1		
Stephanopyxis sp.																														
Thalassionema sp.																														
Thalassiosira sp.	1			1		1	1	1						1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2

Table 37 cont'd

date	15-Mar			22-Mar			29-Mar			05-Apr			12-Apr			19-Apr			26-Apr			03-May			10-May			17-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																														
Asterionella japonica																				1								1	1	1
Bacteriastrum sp.																														
Biddulphia sp.													1																	
Campylosiral Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus																	1													
Chaetoceros sp.	1		1													3	3	4	3	3	4	2	1	1	4	4	2	3	5	5
Corethron hystrix																	1		1											
Coscinodiscus sp.																1														
Cylindrotheca closterium														1																1
Dactylisolen sp.																														
Detonula pumila																								1						
Ditylum brightwellii																	1	1	1	1	1									
Eucampia zoodiacus																	1		1										1	
Fragilariopsis sp.																														
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus		1												1		1	1	1				1	1	1					1	
Leptocylindrus minimus																														
Licmophora sp.																									1	1				
Melosira sp.		1											1			1														
Navicula sp.																														
Nitzschioid sp.													1			1	1	1	1	1	1	1	1		1		1	1	1	1
Pleurosigmal Gyrosigma sp.																					1									
Rhizosolenia setigera																														
Rhizosolenia sp. (pointy)																							1							
Rhizosolenia sp. (blunt)		1														1			1	1	1				1					
Rhizosolenia stolterfothii		1	1			1														1				1	1				1	
Skeletonema costatum		1													1	1	1	1	1	1	1	1		1	1	1	1	1	1	1
Stephanopyxis sp.																									1					
Thalassionema sp.								1					1											1						
Thalassiosira sp.	1	1	1		1	1		1		1	1		1	1	1	2	2	2	2	2	2	2	1	1	2	1	1	1	1	2

Table 37 cont'd

date	24-May			31-May			07-Jun			14-Jun			21-Jun			28-Jun			05-Jul			12-Jul			19-Jul			26-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																														
Asterionella japonica					1	1																								
Bacteriastrum sp.																														
Biddulphia sp.																														
Campylosiral Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus				1	1								1	1																
Chaetoceros sp.					2	2	4	3	3						1	4	3	2	1	1		2	2	1						
Corethron hystrix																														
Coscinodiscus sp.																														
Cylindrotheca closterium																														
Dactylisolen sp.																														
Detonula pumila						1																								
Ditylum brightwellii																														
Eucampia zoodiacus						1											1													
Fragilariopsis sp.																		1												
Grammatophora sp.								1																						
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus					1																		1							
Leptocylindrus minimus																														
Licmophora sp.	1				1		1										1									1				
Melosira sp.																														
Navicula sp.																1														
Nitzschioid sp.	1	1	1																					1						
Pleurosigma/ Gyrosigma sp.																														
Rhizosolenia setigera					1	1																								
Rhizosolenia sp. (pointy)																														
Rhizosolenia sp. (blunt)						1							1																	
Rhizosolenia stolterfothii					1																									
Skeletonema costatum					1	1																								
Stephanopyxis sp.																														
Thalassionema sp.					1																				1					
Thalassiosira sp.			1		2	1			1						1				1		1			1					1	

Table 37 cont'd

date	02-Aug			09-Aug			16-Aug			23-Aug			30-Aug			06-Sep			13-Sep			20-Sep			27-Sep			04-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.																														
Biddulphia sp.																														
Campylosira/Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne																									1				1	
Chaetoceros convolutus																										1			1	
Chaetoceros sp.											1											1		1	2	1		2	1	1
Corethron hystrix																							1		1	1	1	1	1	1
Coscinodiscus sp.																														
Cylindrotheca closterium																		1												
Dactylisolen sp.																														
Detonula pumila																														
Ditylum brightwellii											1											1			1	1	1	1	1	1
Eucampia zoodiacus																														
Fragilariopsis sp.																														
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus																						1							1	
Leptocylindrus minimus																														
Licmophora sp.													1																	
Melosira sp.													1																	
Navicula sp.											1																	1		
Nitzschioid sp.			1																											
Pleurosigma/ Gyrosigma sp.																														
Rhizosolenia setigera																														
Rhizosolenia sp. (pointy)																														
Rhizosolenia sp. (blunt)																						1			1	1	1	1		
Rhizosolenia stolterfothii																														
Skeletonema costatum																									1	1		1	1	
Stephanopyxis sp.																														
Thalassionema sp.																														
Thalassiosira sp.	1	1	1						1	1		1												1		1		1	1	1

Table 37 cont'd

date	10-Oct			17-Oct			24-Oct			31-Oct			07-Nov			15-Nov			22-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																					
Achnanthes sp.																					
Amphiproral Tropidoneis																					
Asterionella japonica																					
Bacteriastrum sp.																					
Biddulphia sp.																					
Campylosira/Plagiogramma																					
Cerautalina sp.																					
Chaetoceros concavicorne		1																			
Chaetoceros convolutus					1				1												
Chaetoceros sp.		1				1												1			
Corethron hystrix	1	1	1	1	1	1	1	1													
Coscinodiscus sp.																					
Cylindrotheca closterium																					
Dactylisolen sp.																					
Detonula pumila																					
Ditylum brightwellii	1	1	1			1															
Eucampia zoodiacus																					
Fragilariopsis sp.																					
Grammatophora sp.																					
Hemialus sp.																					
Lauderia annulata																					
Leptocylindrus danicus																					
Leptocylindrus minimus																					
Licmophora sp.	1																				
Melosira sp.		1						1			1				1						
Navicula sp.		1			1			1		1											
Nitzschioid sp.																					
Pleurosigma/ Gyrosigma sp.																					
Rhizosolenia setigera																					
Rhizosolenia sp. (pointy)																					
Rhizosolenia sp. (blunt)																					
Rhizosolenia stolterfothii																					
Skeletonema costatum	1	1	1	1	1	1				1	1										
Stephanopyxis sp.																					
Thalassionema sp.		1																			
Thalassiosira sp.	1	1	1			1			1							1					

Table 38 : Dinoflagellates in Glacial Creek samples.

date	04-Jan			11-Jan			18-Jan			25-Jan			01-Feb			08-Feb			15-Feb			22-Feb			01-Mar			08-Mar		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.																														
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.																														
Dinophysioid sp.																														
Gonyaulacoid sp.																														
Gonyaulax grindleyi																														
Gymnodinioid sp.	1	2			1	1		1	1		1		1	1	2	1	2	1	1				2	1	2	1	1	3	3	2
Gymnodinium galatheanum																														
Gyrodinium spirale-type																									1					
Heterocapsa triquetra																														
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum minimum																														
Prorocentrum sp.																														
Protoperidinioid sp.																														
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 38 cont'd

date	15-Mar			22-Mar			29-Mar			05-Apr			12-Apr			19-Apr			26-Apr			03-May			10-May			17-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.																		1		1										
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																			1	1										
Cochlodinium sp.																														
Dinophysioid sp.																				1		1							2	
Gonyaulacoid sp.										1																				
Gonyaulax grindleyi										2	4	1																		
Gymnodinioid sp.	6	5	6	1	1	2	2	1	2				2	2	2	4	5	6	4	5	4	3	3	2	2	2	1	2	4	3
Gymnodinium galatheanum																														
Gyrodinium spirale-type	1		1													1	1	1		1		2	1							
Heterocapsa triquetra																						1								
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum minimum																														
Prorocentrum sp.																														
Protoperidinioid sp.		2	1							1									3	1		4	2					1	1	
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 38 cont'd

date	24-May			31-May			07-Jun			14-Jun			21-Jun			28-Jun			05-Jul			12-Jul			19-Jul			26-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																	1													
Amphidinium sp.																														
Ceratium divericatum																														
Ceratium furca																			1			1	1			1				
Ceratium fusus							1																							
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.																														
Dinophysioid sp.				1	1		1	3			1	1		1	1	1			2	1			2	1	1					
Gonyaulacoid sp.																									1				1	
Gonyaulax grindleyi																														
Gymnodinioid sp.		3	1	3	2	1	4	2	3	1	1		3	2	3	4	5	3	1			3	4		3	1	3	3	1	2
Gymnodinium galatheanum															1		1								1		1		1	
Gyrodinium spirale-type																														
Heterocapsa triquetra																														
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum minimum																														
Prorocentrum sp.																1	1		1			1	2		2					
Protoperidinioid sp.						1	1									1							1							
Pyrocystis lunula																														
Raphidophytes																									1					
Heterosigma akashiwo																														

Table 38 cont'd

date	02-Aug			09-Aug			16-Aug			23-Aug			30-Aug			06-Sep			13-Sep			20-Sep			27-Sep			04-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.																														
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus	1	1	1				1	1	1	1	1	1		1	1			1	1	1	1		1		1			1	1	
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides											1	1																		
Cochlodinium sp.																														
Dinophysioid sp.		1					1	1		1	2	1		1	2							2		1				1	1	
Gonyaulacoid sp.								1		1	1	1		1						1										
Gonyaulax grindleyi							2	1	2																					
Gymnodinioid sp.	2	4	2	1	1	1				4	3	3	3	3	2	4	3	2	3	5	3	3	3	2	3	3	2	7	5	6
Gymnodinium galatheanum																														
Gyrodinium spirale-type											1							1	1			1			1	1		3		
Heterocapsa triquetra																														
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides											1																			
Polykrikos sp.																														
Prorocentrum gracile																								1						
Prorocentrum micans																														
Prorocentrum minimum																														
Prorocentrum sp.																														
Protoperidinioid sp.					1		1	1	1		2		1			1			1			1	2	1				2		
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																	1	1				1	1	1		1				

Table 38 cont'd

date	10-Oct			17-Oct			24-Oct			31-Oct			07-Nov			15-Nov			22-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																					
Alexandrium sp.																					
Amphidinium sp.																					
Ceratium divericatum																					
Ceratium furca																					
Ceratium fusus																					
Ceratium lineatum																					
Ceratium pentagonum																					
Ceratium sp.																					
Cochlodinium polykrikoides																					
Cochlodinium sp.																					
Dinophysioid sp.																					
Gonyaulacoid sp.																					
Gonyaulax grindleyi																					
Gymnodinioid sp.	5	4	2	7	5	3	3	6	4	4	4	2	2	3	3	2	1	2	3	2	2
Gymnodinium galatheanum																					
Gyrodinium spirale-type	1			1			1			1	1										
Heterocapsa triquetra																					
Noctiluca scintillans																					
Noctilucoid sp.																					
Oxyrrhis marina																					
Oxyphysis oxytoxoides																					
Polykrikos sp.																					
Prorocentrum gracile																					
Prorocentrum micans																					
Prorocentrum minimum																					
Prorocentrum sp.																					
Protoperidinioid sp.	1							1													
Pyrocystis lunula																					
Raphidophytes																					
Heterosigma akashiwo																					

Table 39 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Glacial Creek samples.

date	04-Jan			11-Jan			18-Jan			25-Jan			01-Feb			08-Feb			15-Feb			22-Feb			01-Mar			08-Mar		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum																				1										
Dinobryon balticum																														
Ebria tripartita																														
Euglenoid							1	1																						
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	4	4	4	4	4	5	4	4	3		3	5	3	5	4	6	5	5	4	4	3	5	4	6	5	6	5	5	6	5
Zooplankton																														
Amoeba																														
Appendicularian																														
Ciliate							1				1	1	3	2	2	1		1	2	1		2	1	1	2	1	1	3	2	1
Copepod															1										1				1	
Nauplius																														
Pluteus																														
Rotifer																														
Tintinnid																												1		
Zoea																														
other																														
Dominant Species/Group																														
name	*Thalassiosira sp.*	*Gymnodinium spp.*	no dominant	*Thalassiosira sp.*	*Gymnodinium sp.*	*Thalassiosira sp.*	euglenoids	*Thalassiosira sp.*	*Gymnodinium sp.*	no sample	ciliates	*Ditylum brightwellii*	ciliates	ciliates	ciliates	*Thalassiosira sp.*	*Thalassiosira sp.*	*Thalassiosira sp.*	*Thalassiosira sp.*	*Thalassiosira sp.*	*Thalassiosira sp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Skeletonema costatum*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*
count (cells/mL)	~3	~2		~2	~2	~1	~4	~2	~2		~2	~1	~20	~4	~5	~5	~8	~5	~10	~4	~2	~40	~30	~40	1200	~200	~150	~810	~250	~410
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	90	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	60	0	0	60	30	40	30	60	0	30	0	40	30	20	15	55	70	70	60	70	35	85	75	85	80	90	87	79	85	90
Dinoflagellates	20	60	0	0	50	30	0	20	60	5	20	0	10	20	25	15	20	10	10	0	0	0	15	5	10	5	5	15	10	6
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	20	40	100	40	20	30	50	20	40	27.5	40	30	5	20	15	10	10	10	5	15	65	5	5	5	2	2	3	2	2	2
Zooplankton	0	0	0	0	0	0	20	0	0	37.5	40	30	55	40	45	10	0	10	25	15	0	10	5	5	8	3	5	4	3	2
Biomass	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.0	1.0	2.0	1.0	1.0	1.0	1.0	1.0	1.5	1.0	1.0	2.0	2.0	2.0	3.5	3.0	3.0	4.0	3.5	3.0

Table 39 cont'd

date	15-Mar			22-Mar			29-Mar			05-Apr			12-Apr			19-Apr			26-Apr			03-May			10-May			17-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																						1							1	1
Dictyocha speculum																														
Dinobryon balticum																														
Ebria tripartita																														
Euglenoid		1											1	1	1			1												
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	5	3	4	6	5	6	4	3	5	4	3	3	4	4	4	3	4	6	4	3	2	4	4	5	3	3	3	3	4	3
Zooplankton																														
Amoeba										1																				
Appendicularian																						1								
Ciliate	4	5	3	3	2	3	3	2	2	8	6	7	4	3	5	5	4	3	1	3	3	5	2	1	2	1		4	5	1
Copepod										1	1											1								
Nauplius																														
Pluteus																														
Rotifer																1			1	1	1		1							
Tintinnid				1																										
Zoea																	1					1								
other																														
Dominant Species/Group																														
name	*Gymnodinium spp.*	*Gymnodinium spp.*	*Gymnodinium spp.*	ciliates	ciliates	*Thalassiosira sp.*	ciliates	diatoms	ciliates	ciliates	ciliates	ciliates	euglenoids	euglenoids	euglenoids	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Thalassiosira spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Protoperidinioid spp.*	*Gymnodinium spp.*	*Skeletonema costatum*	*Chaetoceros spp.*	*Skeletonema costatum*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Skeletonema costatum*	*Skeletonema costatum*
count (cells/mL)	~40	~20	~30	~20	~10	~15	~15	~8	~6	~200	~150	~70	~30	~20	~20	~180	~470	~520	~150	~580	~350	~30	~20	~40	~700	~310	~100	~400	~150	~320
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	10	40	35	0	10	50	0	45	0	5	5	0	45	10	10	80	75	75	60	60	60	20	23	60	80	85	95	75	60	80
Dinoflagellates	60	30	45	15	10	20	25	10	30	15	10	5	5	10	10	10	15	15	35	33	35	45	50	20	10	10	3	10	20	10
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	2	2	2	15	15	10	20	10	20	10	10	10	40	60	40	1	1	2	2	2	1	5	2	5	2	2	2	2	4	5
Zooplankton	28	28	18	70	65	20	55	35	50	70	75	85	10	20	40	9	9	8	3	5	4	30	25	15	8	3	0	13	16	5
Biomass	2.5	2.5	2.5	1.0	1.0	1.5	1.0	1.0	1.0	2.5	2.5	2.0	2.0	1.5	2.0	3.0	3.5	3.5	3.0	3.0	2.5	3.0	2.5	2.5	3.0	2.5	2.0	2.5	3.0	3.0

Table 39 cont'd

date	24-May			31-May			07-Jun			14-Jun			21-Jun			28-Jun			05-Jul			12-Jul			19-Jul			26-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum	1			1	1		1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Dinobryon balticum																														
Ebria tripartita															1															
Euglenoid				1																										
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	3	3	3	2	2	3	3	2	3	3	3	2	2	3	2	2	2	3	1	2	1	2	2	2	2	3	4	2	3	2
Zooplankton																														
Amoeba								1								1														
Appendicularian																														
Ciliate	2	2	2	2	1	2	2	2		4	3	2	2	2	1	4	2	1	3	1		3	3	1	4	3	1	1	1	2
Copepod						1																								
Nauplius																	1													
Pluteus																														
Rotifer																														
Tintinnid									1												1							1		
Zoea																														
other																														
Dominant Species/Group																														
name	*Dictyocha speculum*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Gymnodinium spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Dictyocha speculum*	*Dictyocha speculum*	*Dictyocha speculum*	*Dictyocha speculum*	*Dictyocha speculum*	*Dictyocha speculum*	*Dinophysis acuminata*	dinoflagellates	*Fragilariopsis sp.*	dinoflagellates	*Dictyocha speculum*	*Dictyocha speculum*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros sp.*	ciliates	*Dictyocha speculum*	*Dictyocha speculum*	gymnodinioid dinoflagellates	*Dictyocha speculum*	gymnodinioid dinoflagellates
count (cells/mL)	~4	~40	~20	~60	~300	~600	~110	~50	~30	~13	~6	~5	~9	~7	~8	~4	~20	~40	~15	~2	~3	~20	~30	~10	~30	~5	~8	~10	~9	~7
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	10	30	50	2	75	80	60	50	72	0	0	0	10	5	10	55	30	60	10	25	20	45	45	60	5	5	0	0	5	0
Dinoflagellates	0	40	20	83	20	14	35	40	20	5	20	10	25	30	40	30	55	32	59	20	0	20	30	10	35	30	35	50	20	60
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	40	10	10	2	2	2	3	5	5	50	50	70	50	45	45	1	1	3	1	35	80	15	10	15	20	40	55	20	70	5
Zooplankton	50	20	20	13	3	4	2	5	3	45	30	20	15	20	5	14	14	5	30	20	0	20	15	15	40	25	10	30	5	35
Biomass	1.0	1.5	1.0	2.5	3.0	3.0	2.5	2.0	1.5	1.0	1.0	1.0	1.0	1.0	1.0	2.0	1.5	1.5	1.5	1.0	1.0	1.5	2.0	1.0	2.0	1.5	1.5	1.0	1.0	1.0

Table 39 cont'd

date	02-Aug			09-Aug			16-Aug			23-Aug			30-Aug			06-Sep			13-Sep			20-Sep			27-Sep			04-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum	1	1	1		1	1	1			1	1	1				1	1	1			1				1		1			
Dinobryon balticum																														
Ebria tripartita																		1												
Euglenoid														1											1	1	1	1	1	1
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	2	2	2	2	2	2	2	2	1	2	2	3	4	4	3	3	4	4	4	5	4	4	4	4	4	4	3	5	6	3
Zooplankton																														
Amoeba			1																		1				1					
Appendicularian																														
Ciliate	1	1	1			1			2	1	1		4	4	1			1		1	6	4	7	8	7	6	3	5	5		4
Copepod																														
Nauplius						1																								
Pluteus																														
Rotifer																														
Tintinnid									1														1							
Zoea																														
other																														
Dominant Species/Group																														
name	*Dictyocha speculum*	*Ceratium fusus*	*Ceratium fusus*	ciliates	*Dictyocha speculum*	*Dictyocha speculum*	*Ceratium fusus*	*Ceratium fusus*	*Ceratium fusus*	*Gonyaulax grindleyii*	*Ceratium fusus*	*Ceratium fusus*	ciliates	*Ceratium fusus*	*Ceratium fusus*	*Dictyocha speculum*	*Dictyocha speculum*	*Heterosigma akashiwo*	*Ceratium fusus*	*Ceratium fusus*	*Ceratium fusus*	ciliates	ciliates	ciliates	*Skeletonema costatum*	euglenoids	*Rhizosolenia fragilissima*	*Ditylum brightwellii*	*Corethron hystrix*	*Ditylum brightwellii*
count (cells/mL)	~4	~8	~3	~5	~38	~10	~2	~8	~4	~10	~8	~4	~20	~8	~2	~3	~7	~15	~4	~30	~4	~40	~20	~22	~200	~30	~4	~33	~14	~10
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	15	20	30	0	0	0	0	0	1	3	5	2	30	0	0	0	0	1	0	0	0	15	5	10	55	45	40	60	70	70
Dinoflagellates	20	45	40	20	20	10	90	99	90	93	63	70	5	80	90	40	15	49	75	75	70	30	30	30	15	20	10	20	20	10
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	35	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	55	30	10	10	70	60	10	1	1	3	30	28	20	5	5	60	70	15	10	5	5	5	5	5	10	25	20	10	10	10
Zooplankton	10	5	20	70	10	30	0	0	8	1	2	0	45	15	5	0	10	0	15	20	25	50	60	55	20	10	30	10	0	10
Biomass	1.0	1.5	1.0	1.0	1.5	1.0	1.0	1.5	1.0	1.5	2.0	1.5	1.0	1.5	1.0	1.0	1.5	1.5	1.5	3.0	2.0	2.5	2.0	2.0	2.0	1.5	1.5	3.0	3.0	2.5

Table 39 cont'd

date	10-Oct			17-Oct			24-Oct			31-Oct			07-Nov			15-Nov			22-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																					
Cryptomonads																					
Dictyocha speculum								1					1				1	1			
Dinobryon balticum																					
Ebria tripartita																					
Euglenoid	1		1	1	1					1			1				1				
Phaeocystis pouchetii																					
Radiolarian																					
unid. Nanoflagellates	5	4	2	4	4	2	6	6	5	3	2	2	4	4	4	5	2	2	2	4	4
Zooplankton																					
Amoeba																					1
Appendicularian																					
Ciliate	3	3	2	3	1	1	5	3	2	5	3	5	1		1		2	1	2		2
Copepod																					
Nauplius																					1
Pluteus																					
Rotifer																					
Tintinnid	1									1		1									
Zoea																					
other																					
Dominant Species/Group																					
name	*Ditylum brightwellii*	*Corethron hystrix*	*Corethron hystrix*	euglenoids	*Skeletonema costatum*	*Ditylum brightwellii*	ciliates	dinoflagellates	"f" nanoflagellate	ciliates & tintinnids	*Melosira moniliformis*	ciliates & tintinnids	*Dictyocha speculum*	dinoflagellates	*Melosira moniliformis*	*Thalassiosira sp.*	ciliates	no dominant	ciliates	dinoflagellates	ciliates
count (cells/mL)	~19	~16	~11	~20	~20	~2	~20	~10	~280	~21	~3	~9	~1	~4	~4	~1	~2		~2	~2	~2
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	95	97	97	15	70	90	5	10	10	9	40	0	0	0	45	40	0	30	0	0	0
Dinoflagellates	2	1	1	35	20	5	30	55	20	10	50	4	20	90	45	30	20	30	40	50	20
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	1	1	1	35	5	1	20	15	60	1	1	1	60	10	5	30	40	30	20	50	20
Zooplankton	2	1	1	15	5	4	45	20	10	80	9	95	20	0	5	0	40	10	40	0	60
Biomass	3.0	3.0	2.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Table 40 : Diatoms in Power Bay samples.

date	02-Mar			09-Mar			15-Mar			23.Mar			30.Mar			6_Apr			12-Apr			19-Apr			26-Apr			04-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																										1				
Amphiprora/ Tropidoneis																														
Asterionella japonica		1	1			1		1																	1	1	1	1		
Bacteriastrum sp.																														
Biddulphia sp.												1								1						1				
Cerautalina sp.																														
Chaetoceros concavicorne					1	1																								
Chaetoceros convolutus		1	1	1	1	1	1	1	1		1	1																	1	
Chaetoceros sp.	2	3	3	6	5	7	4	5	3	2	3	4				3	6	2	6	5	6	8	10	10	8	7	8	5	4	5
Corethron hystrix	1	1	1	1	1	1	1	1	1		1	1										1	1	1				1	1	
Coscinodiscus sp.																								1					1	
Cylindrotheca closterium			1			1																	1						1	1
Dactylisolen sp.																														
Detonula pumila				1	1																				1		1			
Ditylum brightwellii							1			1										1	1	1	1	1					1	
Eucampia zoodiacus																										1			1	1
Grammatophora sp.																														
Hemiaulus sp.																														
Lauderia annulata																												1	1	1
Leptocylindrus danicus					1		1	1	1													1			1	1	1	1	1	1
Leptocylindrus minimus																														
Licmophora sp.										1			1																	
Melosira sp.								1																						
Navicula sp.	1																				1	1		1						
Nitzschioid sp.			2	1	1		1	1	1			1						1	1	1	1	1	1	1	1	1	1	1	1	1
Pleurosigma/ Gyrosigma sp.																														
Rhizosolenia setigera																														
Rhizosolenia sp. (pointy)																				1					1				1	
Rhizosolenia sp. (blunt)				1	1	1	1		1	1									1	1								1	1	1
Rhizosolenia stolterfothii					1	1	1	1	1		1	1											1					1	1	1
Skeletonema costatum	1	1	1	1	1	1	1	1	1	1	1	1					1	1	1	1	1	1	1	1	1	1	1	1	1	1
Stephanopyxis sp.					1		1																							
Thalassionema sp.				1			1																							
Thalassiosira sp.	2	2	2	3	3	3	2	2	2	2	2	1		1	1		1	1	1	2	1	2	1	1	1	2	2	1	1	1

Table 40 cont'd

date	11-May			18-May			24-May			01-Jun			08-Jun			15-Jun			21-Jun			28-Jun			06-Jul			13-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.															1															
Amphiprora/ Tropidoneis																														
Asterionella japonica				1	1	1	1	1	1	1	1	1				1	1				1									
Bacteriastrum sp.																														
Biddulphia sp.																														
Cerautalina sp.																			1											
Chaetoceros concavicorne																														
Chaetoceros convolutus				1	1			1																						
Chaetoceros sp.				5	4	6	4	4	4	3	2	4	3			5	3	4	4	2	3	2	4	3		2	1	1	2	1
Corethron hystrix												1																		
Coscinodiscus sp.																														
Cylindrotheca closterium				1		1			1						1			1											1	
Dactylisolen sp.																														
Detonula pumila												1				1														
Ditylum brightwellii						1																								
Eucampia zoodiacus					1			1		1	1	1	1			1	1		1	1	1	1	1	1	1			1	1	1
Grammatophora sp.																														
Hemiaulus sp.																														
Lauderia annulata																														
Leptocylindrus danicus				1	1			1				1					1		1				1			1		1	1	1
Leptocylindrus minimus																														
Licmophora sp.		1						1			1	1					1	1		1					1				1	
Melosira sp.																														
Navicula sp.																											1			
Nitzschioid sp.				1	1	1		1	1	1	1	1				1	1		1	1	1		1				1		1	1
Pleurosigma/ Gyrosigma sp.																											1			
Rhizosolenia setigera											1	1	1			1	1					1	1	1	1	1	1			
Rhizosolenia sp. (pointy)				1	1		1				1																			
Rhizosolenia sp. (blunt)				1	1	1	1	1	1		1									1	1									
Rhizosolenia stolterfothii				1	1	1		1	1																					
Skeletonema costatum				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			1		1	1		1	1
Stephanopyxis sp.																														
Thalassionema sp.																														
Thalassiosira sp.				2	2	2	1	1	1	1	1	1		1	1	2	1	2		1	1	1		1		1	1		1	1

Table 40 cont'd

date	20-Jul			26-Jul			03-Aug			10-Aug			17-Aug			23-Aug			13-Sep			21-Sep			28-Sep			05-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																		1												
Amphiproral Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.																														
Biddulphia sp.																														
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus																							1				1		1	
Chaetoceros sp.	1	1				1		2	3		1		1	2		3	3					8	3	2				1	1	
Corethron hystrix								1																				1	1	1
Coscinodiscus sp.								1	1											1								1		
Cylindrotheca closterium						1																								
Dactylisolen sp.																														
Detonula pumila																														
Ditylum brightwellii							1	1	1			1	1	1	1		1			1								1	1	
Eucampia zoodiacus	1															1	1	1					1							
Grammatophora sp.																		1										1		
Hemiaulus sp.																														
Lauderia annulata																														
Leptocylindrus danicus			1									1	1	1	1															
Leptocylindrus minimus																										1	1			
Licmophora sp.		1																		1										
Melosira sp.																					1		1					1		
Navicula sp.																														
Nitzschioid sp.					1		1											1		1		1	1				1	1		
Pleurosigma/ Gyrosigma sp.																														
Rhizosolenia setigera																							1							
Rhizosolenia sp. (pointy)																					1									
Rhizosolenia sp. (blunt)													1	1		1	1	2										1		
Rhizosolenia stolterfothii									1																					
Skeletonema costatum											1	1		1					1			1	1	1				1	1	1
Stephanopyxis sp.																														
Thalassionema sp.																														
Thalassiosira sp.	1					1	1	1	1	1	1	1	1	1	1	1			1		1	2	2	2				1		

Table 40 cont'd

date	12-Oct			18-Oct			25-Oct			02-Nov			09-Nov			15-Nov			22-Nov			29-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																								
Achnanthes sp.																								
Amphiproral Tropidoneis																								
Asterionella japonica																								
Bacteriastrum sp.																								
Biddulphia sp.																								
Cerautalina sp.																								
Chaetoceros concavicorne			1																					
Chaetoceros convolutus																								
Chaetoceros sp.	1	1	3									1												1
Corethron hystrix	1		1	1		1			1															
Coscinodiscus sp.																								
Cylindrotheca closterium																								
Dactylisolen sp.																								
Detonula pumila																								
Ditylum brightwellii	1			1	1						1	1			1									
Eucampia zoodiacus																								
Grammatophora sp.																								
Hemiaulus sp.																								
Lauderia annulata																								
Leptocylindrus danicus					1																			
Leptocylindrus minimus																								
Licmophora sp.																								
Melosira sp.									1									1						
Navicula sp.		1																						
Nitzschioid sp.																				1				
Pleurosigma/ Gyrosigma sp.																								
Rhizosolenia setigera																								
Rhizosolenia sp. (pointy)																								
Rhizosolenia sp. (blunt)																								
Rhizosolenia stolterfothii																								
Skeletonema costatum	1	1	1	1										1										
Stephanopyxis sp.																								
Thalassionema sp.		1													1									
Thalassiosira sp.	1	1	1	1	1	1						1												

Table 41 : Dinoflagellates in Power Bay samples.

date	02-Mar			09-Mar			15-Mar			23.Mar			30.Mar			6_Apr			12-Apr			19-Apr			26-Apr			04-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.							1	1												1						1			1	
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.																														
Dinophysioid sp.																														
Diplopsalis sp.																														
Gonyaulacoid sp.																		1						1	1		1			
Gymnodinioid sp.	2	1	1	1	2	2	2	2	2	3	2	4		1		1	3	1	3	4	4	4	7	3	5	6	5	1	2	2
Gymnodinium galatheanum																														
Gyrodinium spirale-type				1		1	1		1	1	1	1							1	1	1	2	1			1			1	1
Heterocapsa triquetra																														
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum sp.																														
Protoperidinioid sp.				2			1			1		1								1	1		2		1	1	1	1	1	1
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 41 cont'd

date	11-May			18-May			24-May			01-Jun			08-Jun			15-Jun			21-Jun			28-Jun			06-Jul			13-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.																														
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus								1								1			1				1	1	1	1		1	1	
Ceratium lineatum																														
Ceratium pentagonur																														
Ceratium sp.																														
Cochlodinium polykrikoides	1																		1											
Cochlodinium sp.																			1											
Dinophysioid sp.			1			1		1															1	1						
Diplopsalis sp.																														
Gonyaulacoid sp.					1														1											
Gymnodinioid sp.	1	2	1	4	3	4	3	3	3	4	5	3	2	2	3	3	2	2	1	2	3	4	3	5	3	2	3	4	4	4
Gymnodinium galatheanum																														
Gyrodinium spirale-type					1	1		1	1						1				2					1			1			
Heterocapsa triquetra							1	1								1														
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides										1																				
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum sp.																														
Protoperidinioid sp.			1	2	3	2		1			1	1	1		1				3	1	1		3	1				1	1	1
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																						1	1	1	1	1	1	1	1	1

Table 41 cont'd

date	20-Jul			26-Jul			03-Aug			10-Aug			17-Aug			23-Aug			13-Sep			21-Sep			28-Sep			05-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																													1	
Amphidinium sp.																														
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus				1	1	1			1		1	1	1	1	1	1	1	1	1		1	1								
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																						1								
Cochlodinium polykrikoides																														
Cochlodinium sp.																														
Dinophysioid sp.	1				1		1	1				1		1	1	1		1	1											
Diplopsalis sp.															1															
Gonyaulacoid sp.							1		1	1	1	1	1	1	1	1	1	1	1	1		1						1		
Gymnodinioid sp.	2	2	4	4	3	1	2	3	2	4	4	2	3	4	2	6	2	3	4	2	2	5	6	5	3	4	2	5	4	2
Gymnodinium galatheanum																														
Gyrodinium spirale-type									1					1	1	1	1					1	1	2	1	1		1	1	
Heterocapsa triquetra																														
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides			1																											
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum sp.																														
Protoperidinioid sp.	1	1		1	1		1		2	1	4	1	1	1		1	3	2	1	1		2	1	1		1				
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo										1							1													

Table 41 cont'd

date	12-Oct			18-Oct			25-Oct			02-Nov			09-Nov			15-Nov			22-Nov			29-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																								
Alexandrium sp.																								
Amphidinium sp.											1													
Ceratium divericatum																								
Ceratium furca																								
Ceratium fusus																								
Ceratium lineatum																								
Ceratium pentagonum																								
Ceratium sp.																								
Cochlodinium polykrikoides										1														
Cochlodinium sp.																								
Dinophysioid sp.																								
Diplopsalis sp.																								
Gonyaulacoid sp.																								
Gymnodinioid sp.	3	3	2	4	5	4	4	4	2	4		2	1	2	4	2	3	2	1	2	2	2	3	1
Gymnodinium galatheanum																								
Gyrodinium spirale-type				1	1																			
Heterocapsa triquetra																								
Noctiluca scintillans																								
Noctilucoid sp.																								
Oxyrrhis marina																								
Oxyphysis oxytoxoides																								
Polykrikos sp.																								
Prorocentrum gracile																								
Prorocentrum micans																								
Prorocentrum sp.																								
Protoperidinioid sp.	1						1							1										
Pyrocystis lunula																								
Raphidophytes																								
Heterosigma akashiwo																								

Table 42 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Power Bay samples.

date	02-Mar			09-Mar			15-Mar			23-Mar			30-Mar			6-Apr			12-Apr			19-Apr			26-Apr			04-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum			1							1									1	1	1		1	1						
Dinobryon balticum																														
Ebria tripartita																														
Euglenoid	1								1										1			1		1						
Phaeocystis pouchetii																														
unid. Nanoflagellates	4	3	5	6	4	5	5	5	6	5	5	6	4	5	6	2	3	4	2	3	3	6	5	5	3	3	5	4	5	3
Zooplankton																														
Amoeba																														
Appendicularian																														
Ciliate	1			1			4	2	2	1	2		2	2	2	3	4	5	5	4	2	6	7	7	3	3	2	3	2	3
Copepod																														
Nauplius							1																			1				
Pluteus																														
Radiolarian																														
Rotifer																														
Tintinnid																						2	2			1				
Zoea																														
other																														
Dominant Species/Group																														
name	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	ciliates	ciliates	ciliates	ciliates	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Skeletonema costatum*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Rhizosolenia stolterfothii*	*Rhizosolenia stolterfothii*	*Rhizosolenia stolterfothii*
count (cells/mL)	~130	540	650	3500	2100	1200	1200	510	230	~50	350	500	~6	~3	~4	~20	520	300	12500	3900	4600	2000	3800	4400	1100	1300	2000	~120	~140	~80
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	80	90	94	90	91	90	70	77	70	55	70	68	20	20	20	35	60	65	89	80	85	75	75	90	85	85	85	85	87	80
Dinoflagellates	15	8	3	5	5	8	20	15	20	40	25	30	0	20	0	20	15	5	4	10	11	10	11	3	11	10	11	5	8	10
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	2	2	3	2	2	2	2	3	5	3	2	2	20	20	20	5	2	5	1	1	1	3	2	2	1	1	1	2	1	1
Zooplankton	3	0	0	3	2	0	8	5	5	2	3	0	60	40	60	40	23	25	6	9	3	12	12	5	3	4	3	8	4	9
Biomass	2.0	3.0	3.0	4.0	4.0	3.5	3.5	3.0	2.5	2.5	3.0	3.5	1.0	1.0	1.0	2.0	2.5	2.0	4.0	4.0	3.5	3.5	3.5	3.5	4.0	4.0	4.0	3.0	3.5	3.0

Table 42 cont'd

date	11-May			18-May			24-May			01-Jun			08-Jun			15-Jun			21-Jun			28-Jun			06-Jul			13-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum						1						1								1								1		1
Dinobryon balticum																														
Ebria tripartita																														
Euglenoid						1																								
Phaeocystis pouchetii																														
unid. Nanoflagellates	3	4	4	3	3	4	3	5	4	3	3	2	3	3	2	2	3	3	2	2	2	3	2	2	3	3	3	5	5	4
Zooplankton																														
Amoeba																														
Appendicularian										2																				
Ciliate	4	5	3	2	3	3	2	3	2		2	3	4	4	5	4	2	4	4	2	1	2	2	1	3	3	2	4	4	3
Copepod																														
Nauplius										1			1						1											
Pluteus																														
Radiolarian																														
Rotifer																														
Tintinnid				1	1			1		1	1	1									1	1		1						
Zoea																														
other					1					1																				
Dominant Species/Group																														
name	ciliates	ciliates	ciliates	*Skeletonema costatum*	*Chaetoceros spp.*	*Skeletonema costatum*	*Chaetoceros spp.*	*Asterionella japonica*	*Skeletonema costatum*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	ciliates	ciliates	*Eucampia zoodiacus*	*Thalassiosira aestivalis*	*Chaetoceros spp.*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Heterosigma akashiwo*	*Skeletonema costatum*	*Skeletonema costatum*	*Heterosigma akashiwo*	*Leptocylindrus danicus*	*Leptocylindrus danicus*
count (cells/mL)	~10	~18	~8	450	1200	360	320	200	200	~150	~130	250	~25	~15	~27	340	360	~60	260	~140	~60	~65	~60	~100	~55	~170	~150	~150	~80	~40
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	102	100	100	100	100
Diatoms	0	10	0	80	75	75	85	80	85	65	63	80	50	30	30	80	90	84	84	80	80	65	60	60	15	55	50	8	32	40
Dinoflagellates	30	25	30	15	15	19	8	15	11	25	30	12	15	20	25	10	6	4	10	10	15	15	20	26	45	20	20	10	20	25
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	15	10	35	20	26	36	25	25
Other Flagellates	10	10	10	2	2	3	2	2	2	2	2	4	5	5	5	1	2	2	1	2	1	2	2	2	2	2	2	6	3	4
Zooplankton	60	55	60	3	8	3	5	3	2	8	5	4	30	45	40	9	2	10	5	8	4	5	3	2	3	5	2	40	20	6
Biomass	1.5	1.5	1.0	3.5	3.5	3.5	2.5	3.5	3.0	3.0	3.0	3.0	2.0	1.5	1.5	3.5	3.5	2.5	3.0	3.0	2.5	2.5	2.5	3.0	2.0	2.5	2.5	2.5	2.5	2.0

Table 42 cont'd

date	20-Jul			26-Jul			03-Aug			10-Aug			17-Aug			23-Aug			13-Sep			21-Sep			28-Sep			05-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			1							
Dinobryon balticum																														
Ebria tripartita																														
Euglenoid																														
Phaeocystis pouchetii																														
unid. Nanoflagellates	2	2	3	3	2	2	4	2	2	3	5	3	3	3	3	3	3	2	4	3	3	4	6	3	5	3	3	3	5	3
Zooplankton																														
Amoeba									1											1				1						
Appendicularian																														
Ciliate	3	4	5	3	3	3	4	3	3	1	3	2	4	4	2	4	4	3	3		3	5	5	5	5	3	4	7	2	3
Copepod																														
Nauplius									1				1												1			1		
Pluteus																														
Radiolarian																					1						1			
Rotifer																						1								
Tintinnid																										2		2	1	1
Zoea																														
other		1											1																	
Dominant Species/Group																														
name	ciliates	ciliates	ciliates	ciliates	gymnodinoid dinoflagellate	*Chaetoceros sp.*	ciliates	*Skeletonema costatum*	ciliates	gymnodinoid dinoflagellates	*Gonyaulax grindleyi*	*Gonyaulax grindleyi*	*Gonyaulax grindleyi*	*Gonyaulax grindleyi*	*Gonyaulax grindleyi*	*Gonyaulax grindleyi*	*Ceratium fusus*	*Gonyaulax grindleyi*	*Ceratium fusus*	*Licmophora sp.*	diatoms	*Chaetoceros spp.*	*Chaetoceros spp.*	*Skeletonema costatum*	ciliates	ciliates	*Leptocylindrus minimus*	*Skeletonema costatum*	*Ditylum brightwellii*	*Skeletonema costatum*
count (cells/mL)	~40	~20	~20	~60	~20	~10	~30	~25	~20	~60	~230	~20	~60	~65	~12	~40	~7	~10	~3	~4	~5	~200	~100	~100	~15	~10	~550	1480	~20	~160
% constituent	100	100	100	100	100	100	90	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	30	20	10	0	5	45	30	70	30	10	6	20	10	15	7	30	30	35	2	68	50	70	85	45	0	5	60	80	90	85
Dinoflagellates	25	20	40	35	55	15	15	10	35	55	70	60	60	60	55	45	50	35	70	20	30	18	7	35	30	35	5	5	5	5
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	5	15	10	5	10	10	5	10	5	25	21	10	25	20	35	10	5	20	20	10	5	2	3	1	20	20	10	1	1	1
Zooplankton	40	45	40	60	30	30	40	10	30	10	3	10	5	5	3	15	15	10	8	2	15	10	5	19	50	40	25	14	4	9
Biomass	1.5	1.0	1.5	1.5	1.0	1.0	1.5	1.5	2.0	2.0	4.0	2.0	3.0	3.0	2.5	2.5	2.0	1.5	1.5	1.5	1.5	2.5	2.5	2.0	1.0	1.0	1.5	3.5	3.0	1.5

Table 42 cont'd

date	12-Oct			18-Oct			25-Oct			02-Nov			09-Nov			15-Nov			22-Nov			29-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																								
Cryptomonads																								
Dictyocha speculum																1			1	1				
Dinobryon balticum																								
Ebria tripartita																								
Euglenoid						1		1																
Phaeocystis pouchetii																								
unid. Nanoflagellates	3	2	1	3	3	3	4	4	2	3	2	2	4	4	3	3	4	3	3	2	4	3	2	3
Zooplankton																								
Amoeba																								
Appendicularian																								
Ciliate	3		4	6	2	2	8	5	3				4	5	2	3	3		2	1	2	3	1	3
Copepod																								
Nauplius							1																	
Pluteus																								
Radiolarian																								
Rotifer																								
Tintinnid				1								1												
Zoea																								
other																								
Dominant Species/Group																								
name	*Dityfum brightwellii*	*Thalassiosira sp.*	*Chaetoceros spp.*	ciliates	dinoflagellates	dinoflagellates	ciliates	ciliates	*Corethron hystrix*	*Cochlodinium polykrikoides*	*Dityfum brightwellii*	*Dityfum brightwellii*	ciliates	ciliates	ciliates	ciliates	ciliates	*Melosira sp.*	ciliates	*Dictyocha speculum*	ciliates	ciliates	dinoflagellates	ciliates
count (cells/mL)	~2	~4	~20	~30	~10	~10	~60	~11	~1	~6	~2	~1	~10	~10	~5	~4	~3	~4	~2	~1	~2	~4	~5	~3
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	80	94	85	35	30	30	0	0	65	0	95	96	0	5	20	0	0	59	0	20	0	0	0	40
Dinoflagellates	9	5	4	15	45	40	8	10	4	95	1	1	5	20	30	15	20	40	20	20	10	10	85	5
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	1	1	1	3	5	10	2	5	1	1	1	1	10	10	20	15	5	1	30	45	5	10	5	5
Zooplankton	10	0	10	47	20	20	90	85	30	4	3	2	85	65	30	70	75	0	50	15	85	80	10	50
Biomass	1.5	1.0	1.5	2.0	1.5	1.5	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Table 43 : Diatoms in Kunechin Point samples.

date	01-Mar			07-Mar			15-Mar			22-Mar			29-Mar			05-Apr			12-Apr			19-Apr			26-Apr			03-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																		1												
Asterionella japonica																			1	1		1	1	1		1			1	1
Bacteriastrum sp.																				1										
Biddulphia sp.																														
Cerautalina sp.																						1	1							
Chaetoceros concavicorne																														
Chaetoceros convolutus	1	1	1	1		1					1																			
Chaetoceros sp.	4	5	4	3	2	3	5	3	4	6	4	5	6	9	6	9	8	3	6	6	4	10	10	9	8	8			1	3
Corethron hystrix																														
Coscinodiscus sp.				1		1																								
Cylindrotheca closterium																1							1			1			1	1
Dactylisolen sp.																														
Detonula pumila																														
Ditylum brightwellii	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			1	1						
Eucampia zoodiacus																										1		1	1	1
Grammatophora sp.																														
Hemiaulus sp.																														
Lauderia annulata																														
Leptocylindrus danicus		1		1	1	1	1		1										1	1		1	1	1	1	1			1	
Leptocylindrus minimus																														
Licmophora sp.																												1		
Melosira sp.	1		1						1									1												
Navicula sp.	1		1	1	1		1		1									1				1	1							
Nitzschioid sp.		1	1							1		1		1		1		1	1	1		1	1	1	1	1				1
Pleurosigma/ Gyrosigma sp.				1								1	1	1																
Rhizosolenia setigera																														
Rhizosolenia sp. (pointy)																				1					1					
Rhizosolenia sp. (blunt)	1	1	1	1	1	1	1	1	1	1	1	1				1	1		1	1		1							1	
Rhizosolenia stolterfothii																													1	1
Skeletonema costatum	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1
Stephanopyxis sp.																														
Thalassionema sp.																														
Thalassiosira sp.	2	2	2	2	2	2	3	3	3	2	3	3	1	2	2	2	2	2	2	2	2	1	2	1	1				1	1

Table 43 cont'd

date	10-May			17-May			24-May			31-May			07-Jun			14-Jun			21-Jun			28-Jun			05-Jul			12-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																														
Asterionella japonica														1																
Bacteriastrum sp.																														
Biddulphia sp.																														
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus																									1					1
Chaetoceros sp.							1		1	4	3	2	4	4	3		2	3								1				1
Corethron hystrix																														
Coscinodiscus sp.																														
Cylindrotheca closterium																		1												
Dactylisolen sp.																														
Detonula pumila													1		1			1												
Ditylum brightwellii																														
Eucampia zoodiacus							1			1	1	1	1	1	1		1	1												
Grammatophora sp.																														1
Hemiaulus sp.																														
Lauderia annulata																														
Leptocylindrus danicus											1				1	1		1								1				
Leptocylindrus minimus																														
Licmophora sp.	1						1	1	1				1									1	1	1				1	1	1
Melosira sp.																														
Navicula sp.														1				1								1				
Nitzschioid sp.		1								1			1	1			1									1		1		
Pleurosigma/ Gyrosigma sp.							1	1	1		1																			
Rhizosolenia setigera															1			1												
Rhizosolenia sp. (pointy)																														
Rhizosolenia sp. (blunt)																	1	1												
Rhizosolenia stolterfothii																														
Skeletonema costatum									1	1	1	1		1	1		1	1			1					1			1	1
Stephanopyxis sp.																														
Thalassionema sp.																														
Thalassiosira sp.		1											1	1	1											1	1		1	1

Table 43 cont'd

date	19-Jul			26-Jul			02-Aug			09-Aug			16-Aug			23-Aug			30-Aug			09-Sep			17-Sep			24-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																														
Asterionella japonica																		1												
Bacteriastrum sp.																														
Biddulphia sp.								1								1														
Cerautalina sp.																														
Chaetoceros concavicorne																										1				
Chaetoceros convolutus																														
Chaetoceros sp.											1					1	2	3	3	2	1	2	4	2	3		1			
Corethron hystrix																							1	1						
Coscinodiscus sp.												1									1					1				
Cylindrotheca closterium																														
Dactylisolen sp.																														
Detonula pumila																														
Ditylum brightwellii											1	1								1		1							1	
Eucampia zoodiacus						1																								
Grammatophora sp.				1									1	1																
Hemiaulus sp.																														
Lauderia annulata																														
Leptocylindrus danicus																					1				1	1	1			
Leptocylindrus minimus																						1	1		1	1	1			
Licmophora sp.	1	1	1	1	1	1		1			1		1	1					1							1				
Melosira sp.																			1									1		
Navicula sp.																	1			1		1								
Nitzschioid sp.				1						1	1				1										1	1				
Pleurosigma/ Gyrosigma sp.																														
Rhizosolenia setigera																														
Rhizosolenia sp. (pointy)																														
Rhizosolenia sp. (blunt)																	1		1	1		1	1		2	1	2	1		
Rhizosolenia stolterfothii																														
Skeletonema costatum													1		1	1	1	1	1							1	1			
Stephanopyxis sp.											1																			
Thalassionema sp.																														
Thalassiosira sp.		1			1			1	1	1	1	2		1	1	1	1			1		2	1		2	2		1	1	1

Table 43 cont'd

date	01-Oct			08-Oct			16-Oct			22-Oct			30-Oct			05-Nov			12-Nov			19-Nov			26-Nov			03-Dec		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.																														
Biddulphia sp.																														
Cerautalina sp.																														
Chaetoceros concavicorne																					1									
Chaetoceros convolutus				1			1	1		1	1																			
Chaetoceros sp.	1			6	1		5	4	2	2	2	1		2			2													
Corethron hystrix				1	1		1			1																				
Coscinodiscus sp.							1										1													
Cylindrotheca closterium				1									1	1	1															
Dactylisolen sp.				1	1					1																				
Detonula pumila																														
Ditylum brightwellii		1	1	1	1	1	1	1	1	1	1	1	1				1													
Eucampia zoodiacus																														
Grammatophora sp.																					1	1				1				
Hemiaulus sp.																														
Lauderia annulata																														
Leptocylindrus danicus							1	1																						
Leptocylindrus minimus				1	1	1	1	1																						
Licmophora sp.																									1					
Melosira sp.																														
Navicula sp.																														
Nitzschioid sp.				2	1	1	1	1		1	1	1				2	2		1	1	1									
Pleurosigma/ Gyrosigma sp.									1			1					1													
Rhizosolenia setigera																														
Rhizosolenia sp. (pointy)																														
Rhizosolenia sp. (blunt)							1	1																						
Rhizosolenia stolterfothii																														
Skeletonema costatum	1	1		1	1	1	1	1	1	1	1	1	1	1			1													
Stephanopyxis sp.																														
Thalassionema sp.							1		1																					
Thalassiosira sp.	1	1	1	2	1	1	2	2	2	2	2	2		1	1	1	1	2		1										

Table 44 : Dinoflagellates in Kunechin Point samples.

date	01-Mar			07-Mar			15-Mar			22-Mar			29-Mar			05-Apr			12-Apr			19-Apr			26-Apr			03-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																						1		1						
Amphidinium sp.		1		1																										
Ceratium divaricatum																														
Ceratium furca																			1										1	
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														1
Cochlodinium polykrikoides																														
Cochlodinium sp.																														
Dinophysioid sp.																														
Diplopsalis sp.																							1	1						
Gonyaulacoid sp.			1																											
Gymnodinioid sp.	2	2	3	1	1	2	1	1	1	2	2	4	2	1	1	2	2	1	3	2	2	3	3		2	3		1	5	4
Gymnodinium galatheanum																										1		1	1	
Gyrodinium spirale-type		1								1			2	1																
Heterocapsa triquetra											1	1	1	1																
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum sp.						1	2		1				1						1	1		1				1		1	2	2
Protoperidinioid sp.																														
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 44 cont'd

date	10-May			17-May			24-May			31-May			07-Jun			14-Jun			21-Jun			28-Jun			05-Jul			12-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.														1																
Ceratium divaricatum																														
Ceratium furca																														
Ceratium fusus																													1	
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.																														
Dinophysioid sp.																1				1						1				1
Diplopsalis sp.																														
Gonyaulacoid sp.																														
Gymnodinioid sp.		1	3	1	3	3		3	2	2	4	3	2	1	2		1	3					1	1	1	2	1	1		1
Gymnodinium galatheanum																														
Gyrodinium spirale-type								1			1							1										1		
Heterocapsa triquetra																														
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum sp.																														
Protoperidinioid sp.	1			1											1		1				1					1				
Pyrocystis lunula												1																		
Raphidophytes																														
Heterosigma akashiwo																									1				1	1

Table 44 cont'd

date	19-Jul			26-Jul			02-Aug			09-Aug			16-Aug			23-Aug			30-Aug			09-Sep			17-Sep			24-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																									1					
Amphidinium sp.																									1					
Ceratium divaricatum																														
Ceratium furca																														
Ceratium fusus				1			1			1			1	1		1	1		1	1	1				1			1	1	
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.																														
Dinophysioid sp.				1						1			1						1		1									
Diplopsalis sp.																														
Gonyaulacoid sp.				1						1	1	1	1	1	1							1	1		1	1				
Gymnodinioid sp.	1	1		5	3	1	2	2	1	9	3	2	5	2	1	2		1	3	3	2	4	4	1	2	4	1	3	4	2
Gymnodinium galatheanum																														
Gyrodinium spirale-type					1				1	2									1			1	1		1	1	1			
Heterocapsa triquetra																														
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides										1																				
Polykrikos sp.																														
Prorocentrum gracile												1																		
Prorocentrum micans																														
Prorocentrum sp.																														
Protoperidinioid sp.	1				1		1			4	2	1	1	1					2	1		3	1	1	3	2	1			
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo										1																				

Table 44 cont'd

date	01-Oct			08-Oct			16-Oct			22-Oct			30-Oct			05-Nov			12-Nov			19-Nov			26-Nov			03-Dec		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.												1																		
Ceratium divaricatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides								1								1		1	1	1										
Cochlodinium sp.																														
Dinophysioid sp.							1																							
Diplopsalis sp.				1																										
Gonyaulacoid sp.																														
Gymnodinioid sp.	2	2		3	4	1	3	5	4	4	3	2	3	3	3	2	4	3	5	5	3	3	4	2	3	3	5		1	1
Gymnodinium galatheanum																														
Gyrodinium spirale-type				2			1	2		1	2	1		1			1	1	1	1										
Heterocapsa triquetra																														
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum sp.																														
Protoperidinioid sp.	1						1		1		1			2		1		1	1											
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 45 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Kunechin Point samples.

date	01-Mar			07-Mar			15-Mar			22-Mar			29-Mar			05-Apr			12-Apr			19-Apr			26-Apr			03-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																			1											
Dictyocha speculum																														
Dinobryon balticum																														
Ebria tripartita																														
Euglenoid																														
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	4	5	6	5	3	5	4	5	4	5	6	6	5	5	6	3	4	4	3	4	4	2	3	2	4	5		3	3	5
Zooplankton																														
Amoeba																												1		
Appendicularian																														
Ciliate	2	2	1				1	1		2	2	1	2	1	1	6	3	1	3	2	1	3	4	3	2	3		1	3	3
Copepod																										1				
Nauplius																														
Pluteus																														
Rotifer																														
Tintinnid						1	1		1													1								
Zoea																														
other	1																													
Dominant Species/Group																														
name	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Chaetoceros spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Chaetoceros spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Skeletonema costatum*	*Chaetoceros spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	no sample	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Skeletonema costatum*
count (cells/mL)	9000	4500	2000	4500	1400	4600	2200	~550	~280	~230	~500	~410	41000	7200	~750	2400	~500	~200	~510	~550	~200	1400	10000	2400	1700	3000		~30	~30	~350
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	94	90	85	93	90	90	82	93	86	80	68	65	55	72	85	75	85	92	65	85	90	95	95	94	93	94	80	83	53	65
Dinoflagellates	2	7	12	5	5	7	12	3	10	10	25	30	40	25	10	9	4	3	20	8	5	2	2	2	4	3	14	10	40	25
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	2	1	2	2	5	2	2	2	2	2	2	2	2	1	2	1	1	2	2	2	2	1	1	1	1	1	1.5	2	2	2
Zooplankton	2	2	1	0	0	1	4	2	2	8	5	3	3	2	3	15	10	3	13	5	3	2	2	3	2	2	5.5	5	5	8
Biomass	4.0	4.0	3.5	3.5	2.5	3.0	3.5	3.0	2.5	3.0	4.0	3.5	3.5	4.0	2.5	3.5	3.0	2.5	4.0	3.5	3.0	3.5	4.5	3.5	4.0	4.5	3.3	2.5	3.0	3.0

Table 45 cont'd

date	10-May			17-May			24-May			31-May			07-Jun			14-Jun			21-Jun			28-Jun			05-Jul			12-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum							1									1	1		1	1			1			1				
Dinobryon balticum																														
Ebria tripartita																									1	1	1			
Euglenoid																														
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	3	4	3	4	4	4	3	3	3	4	4	3	2	3	2	2	2	3	2	2	2	4	3	3	2	3	2	2	4	3
Zooplankton																														
Amoeba																									1		1			
Appendicularian										1																				
Ciliate	2	2	1	5	4	2	4	3	4	3	4	2	2	3	1	3	2	2		2	2	1	1	1	2	2	2	1	2	3
Copepod												1											1							
Nauplius							1																							
Pluteus														1																
Rotifer																														
Tintinnid																									1	1				
Zoea																														
other														1																
Dominant Species/Group																														
name	ciliates	ciliates	*Gymnodinium spp.*	ciliates	ciliates	*Gymnodinium spp.*	ciliates	*Gymnodinium spp.*	ciliates	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Chaetoceros spp.*	*Chaetoceros debilis*	*Chaetoceros debilis*	ciliates	*Skeletonema costatum*	*Skeletonema costatum*	*Dictyocha speculum*	ciliates	ciliates	nanoflagellates	ciliates	ciliates	*Ebria tripartita*	*Ebria tripartita*	*Ebria tripartita*	gymnodinioid dinoflagellates	*Skeletonema costatum*	*Grammatophora sp.*
count (cells/mL)	~5	~6	~8	~40	~25	~15	~30	~20	~15	1000	~300	~140	~150	8000	6000	~11	~80	~160	~2	~15	~5	~50	~3	~4	~20	~40	~20	~6	~20	~25
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	10	20	0	0	0	0	40	30	30	80	70	65	80	94	96	15	69	78	0	0	15	10	10	10	0	15	25	30	35	65
Dinoflagellates	15	10	70	15	30	50	0	40	20	14	20	25	9	2	2	5	8	15	0	10	15	0	5	5	22	10	5	40	25	10
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2
Other Flagellates	10	10	10	15	15	20	10	10	10	2	2	3	1	1	1	30	5	2	100	25	20	80	35	35	60	65	50	15	20	10
Zooplankton	65	60	20	70	55	30	50	20	40	4	8	7	10	3	1	50	18	5	0	65	50	10	50	50	16	10	20	15	20	13
Biomass	1.0	1.0	1.0	2.0	2.0	1.5	1.5	1.0	1.5	3.5	3.0	2.5	2.0	4.0	3.5	1.5	2.0	2.5	1.0	1.0	1.0	1.0	1.0	1.0	1.5	2.0	1.5	1.0	1.0	1.5

Table 45 cont'd

date	19-Jul			26-Jul			02-Aug			09-Aug			16-Aug			23-Aug			30-Aug			09-Sep			17-Sep			24-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum		1			1		1			1	1	1	1	1	1	1			1	1	1	1	1	1	1	1		1		
Dinobryon balticum																														
Ebria tripartita													1			1														
Euglenoid																												1		
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	3	3	2	3	6	4	3	4	3	5	4	4	2	2	1	1	1		5	5	4	2	3	4	5	4	3	4	4	3
Zooplankton																														
Amoeba											1			1											1					
Appendicularian																														
Ciliate	1	1	1	3	4	2	4	3	2	5	5	4	3	3	1	1	1	2	8	6	4	3	4	2	6	5	4	5	2	3
Copepod																														
Nauplius																														
Pluteus																														
Rotifer										1								1												
Tintinnid									1	1	1		1							1	1									
Zoea																														
other																														
Dominant Species/Group																														
name	*Licmophora abbreviata*	*Licmophora abbreviata*	*Licmophora abbreviata*	gymnodinioid dinoflagellates	gymnodinioid dinoflagellates	ciliates	ciliates	diatoms	ciliates	*Dictyocha speculum*	*Dictyocha speculum*	*Dictyocha speculum*	gymnodinioid dinoflagellates	*Gonyaulax grindleyi*	*Thalassiosira sp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Chaetoceros spp.*	*Melosira moniliformis*	*Ceratium fusus*	*Ceratium fusus*	*Rhizosolenia fragilissima*	*Thalassiosira sp.*	*Dictyocha speculum*	*Ceratium fusus*	*Dictyocha speculum*	diatoms	*Ceratium fusus*	gymnodinioid dinoflagellates	*Thalassiosira sp.*
count (cells/mL)	~15	~10	~2	~25	~20	~4	~20	~15	~10	~165	~30	~20	~40	~15	~10	~30	~20	~15	~50	~11	~3	~50	~30	~4	~8	~22	~50	~3	~15	~3
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	50	55	40	20	10	30	0	50	10	4	33	30	5	15	69	75	92	78	40	10	15	75	70	50	25	35	70	30	10	30
Dinoflagellates	20	10	0	55	40	10	40	10	35	45	35	20	70	60	20	16	5	2	15	50	50	17	20	5	50	30	10	35	65	30
Raphidophytes	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	20	25	40	10	15	20	10	10	10	30	6.5	25	2	3	1	4	1	0	10	20	20	3	5	40	5	20	5	10	10	10
Zooplankton	10	10	20	15	35	40	50	30	45	20	26	25	23	22	10	5	2	20	35	20	15	5	5	5	20	15	15	25	15	30
Biomass	1.0	1.0	1.0	1.5	1.5	1.0	1.5	1.5	1.0	3.0	2.0	1.5	2.0	2.0	1.5	1.5	1.0	1.0	2.0	2.5	1.5	2.0	1.5	1.0	2.0	2.0	1.5	2.0	1.0	1.0

Table 45 cont'd

date	01-Oct			08-Oct			16-Oct			22-Oct			30-Oct			05-Nov			12-Nov			19-Nov			26-Nov			03-Dec		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum				1						1														1						
Dinobryon balticum																														
Ebria tripartita																														
Euglenoid				1	1																									
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	2	3	1	6	5	4	3	3	3	5	3	3	4	4	2	3	3	4	5	5	4	5	2	3	3	3	3	1	2	3
Zooplankton																														
Amoeba										1		1																		
Appendicularian																														
Ciliate	1	3	3	6	2	1	5	3	1	2	4	5	3	4	1	2	3	3	6	5	2	3	4	2	2	4	2	1	1	2
Copepod																														
Nauplius																														
Pluteus																														
Rotifer																														
Tintinnid																														
Zoea																														
other																														
Dominant Species/Group																														
name	*Skeletonema costatum*	*Ditylum brightwellii*	*Ditylum brightwellii*	*Ditylum brightwellii*	*Skeletonema costatum*	*Skeletonema costatum*	*Ditylum brightwellii*	*Ditylum brightwellii*	*Ditylum brightwellii*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Thalassiosira sp.*	*Cochlodinium polykrikoides*	diatoms	dinoflagellates	*Cochlodinium polykrikoides*	*Cochlodinium polykrikoides*	*Chaetoceros concavicorne*	*Grammatophora sp.*	ciliates	ciliates	dinoflagellates	ciliates	*Grammatophora sp.*	ciliates	ciliates	ciliates
count (cells/mL)	~35	~2	~1	~80	~330	~50	~52	~17	~6	~440	~400	~200	~80	~90	~4	~4	~20	~10	~21	~6	~5	~6	~4	~2	~6	~8	~6	~1	~2	~2
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	50	50	55	80	80	91	90	90	80	90	87	85	55	45	45	20	45	20	2	8	50	60	0	0	10	0	50	0	0	0
Dinoflagellates	20	5	0	5	10	2	5	7	14	4	7	5	20	25	30	40	25	40	80	75	30	10	49	35	50	40	30	0	10	10
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	15	15	5	5	5	5	1	1	3	3	2	2	5	5	5	10	5	10	3	5	10	5	1	30	20	10	5	10	10	10
Zooplankton	15	30	40	10	5	2	4	2	3	3	4	8	20	25	20	30	25	30	15	12	10	25	50	35	20	50	15	90	80	80
Biomass	1.0	1.5	1.0	4.0	2.0	1.5	3.5	3.0	2.0	2.0	2.0	1.5	1.5	1.5	1.0	1.0	1.5	1.5	2.0	1.5	1.5	1.5	1.5	1.5	1.0	1.0	1.5	1.0	1.0	1.0

Table 46 : Diatoms in Departure Bay samples.

date	03-May			10-May			17-May			22-May			31-May			08-Jun			14-Jun			21-Jun			28-Jun			05-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																														
Asterionella japonica							1	1		1	1	1	1	1	1	1	1	1	1	1	1									
Bacteriastrum sp.																														
Biddulphia sp.																1		1												
Cerataulina sp.																														
Chaetoceros concavicorne														1																
Chaetoceros convolutus	1	1					1	1		1	1	1	1	1																
Chaetoceros sp.	5	5	4	3	4	3	6	3		7	6	7	3	3	3	4	5	5	3	3	3	1	2	2	4	3	1	3	3	5
Corethron hystrix	1	1	1				1					1		1																
Coscinodiscus sp.																														
Cylindrotheca closterium							1				1		1			1	1								1	1			1	1
Dactyliosolen sp.																									1					1
Detonula pumila				1	1	1						1	1	1																
Ditylum brightwellii													1																	
Eucampia zoodiacus				1			1					1	1	1	1	1	1	1	1		1			1	1	1	1	1	1	1
Grammatophora sp.																													1	
Hemiaulus sp.																									1					
Lauderia annulata			1										1																	
Leptocylindrus danicus	1	1	1	1						1	1	1		1	1	1	1	1										1		
Leptocylindrus minimus																														
Licmophora sp.																1				1								1		
Melosira sp.			1																											
Navicula sp.				1																					1		1			
Nitzschioid sp.	1		1	1	1		1	1			1	1	1	1	1	1	1	1	1	1	1				1	1	1		1	1
Pleurosigma/ Gyrosigma sp.					1																									
Rhizosolenia setigera													1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Rhizosolenia sp. (pointy)			1							1																				
Rhizosolenia sp. (blunt)	1	1	1	1	1		1			1	1	1								1					1	1	1	1	1	1
Rhizosolenia stolterfothii	1	1	1		1	1				1	1	1	1	1																1
Skeletonema costatum	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1			
Stephanopyxis sp.																														
Thalassionema sp.															1			1			1	1				1				1
Thalassiosira sp.	1	1	1	1	1	1	1	1		2	2	2	1	1	1	1	2	2	1	1	2			1	1	1	1		1	1

Table 46 cont'd

date	12-Jul			19-Jul			26-Jul			02-Aug			09-Aug			16-Aug			23-Aug			30-Aug			06-Sep			14-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.					1																									
Amphiprora/ Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.																														
Biddulphia sp.																				1										
Cerautalina sp.																														
Chaetoceros concavicorne																				1									1	
Chaetoceros convolutus																														
Chaetoceros sp.	6	4	6	3	4	3	2	5	7	4	3	1	2			6	6	1	8	5	6	2	3	2	5	6	7	6	8	7
Corethron hystrix														1		1						1			1				1	
Coscinodiscus sp.																			1					1	1			1		1
Cylindrotheca closterium	1		1	1	1						1		1													1	1			
Dactylisolen sp.	1	1																												
Detonula pumila																						1	1	1				1		1
Ditylum brightwellii							1	1			1		1	1	1	1	1		1					1	1			1	1	1
Eucampia zoodiacus	1	1	1		1	1			1																					
Grammatophora sp.																														
Hemiaulus sp.																												1	1	1
Lauderia annulata																			1		1				1	1	1		1	1
Leptocylindrus danicus	1			1	1		1		1	1	1		1	1	1	1						1		1	1					
Leptocylindrus minimus																	1													
Licmophora sp.																														
Melosira sp.																			1	1	1							1		
Navicula sp.																														
Nitzschioid sp.	1	1		1	1			1			1	1	1	1		1			1	1	1				1		1	1	1	1
Pleurosigma/ Gyrosigma sp.																						1								
Rhizosolenia setigera	1	1	1	1	1	1				1	1																	1	1	
Rhizosolenia sp. (pointy)													1						1	1	1	1	1	1	2	1	2	1		
Rhizosolenia sp. (blunt)																				1				1	1					
Rhizosolenia stolterfothii						1											1		1				1	1			1			
Skeletonema costatum			1			1			1		1	1	1																	
Stephanopyxis sp.			1																1	1				1					1	
Thalassionema sp.						1							1																	
Thalassiosira sp.	1			1	1	1			1	1	1	1	2	2	2	2	2	1	3	1	1	1		1	1	2	1	1	2	1

Table 46 cont'd

date	20-Sep			27-Sep			04-Oct			11-Oct			18-Oct			25-Oct			01-Nov			08-Nov			15-Nov			22-Nov			29-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																																	
Achnanthes sp.																																	
Amphiproral Tropidoneis																																	
Asterionella japonica																																	
Bacteriastrum sp.																																	
Biddulphia sp.																																	
Cerautalina sp.																																	
Chaetoceros concavicorne						1	1			1	1				1																		
Chaetoceros convolutus			1										1																				
Chaetoceros sp.	5	4	4	3	2	4			1		1		1	2	4	2	1	1				1	2			1							
Corethron hystrix	1		1						1									1							1					1		
Coscinodiscus sp.		1	1												1																	
Cylindrotheca closterium	1	1		1		1									1																		
Dactylisolen sp.																																	
Detonula pumila																																	
Ditylum brightwellii	1															1		1	1	1	1		1		1				1		1		
Eucampia zoodiacus																																	
Grammatophora sp.																																	
Hemiaulus sp.																																	
Lauderia annulata																																	
Leptocylindrus danicus		1												1																			
Leptocylindrus minimus			1																														
Licmophora sp.		1																															
Melosira sp.			1																														
Navicula sp.						1	1					1		2	1						1				1								
Nitzschioid sp.	1	1	1	1	1	1				1			1	1								1	2		1	1							
Pleurosigma/ Gyrosigma sp.																																	
Rhizosolenia setigera		1	1		1	1									1	1					1		1	1									
Rhizosolenia sp. (pointy)		1										1																					
Rhizosolenia sp. (blunt)	1	1	1	1	1									1	1											1					1		
Rhizosolenia stolterfothii																1		1				1											
Skeletonema costatum	1	1	1	1	1	1			1				1	1	1	1	1			1	1		1		1								
Stephanopyxis sp.																				1													
Thalassionema sp.					1	1					1		1	1				1							1			1					
Thalassiosira sp.		1	1	2	2	1	1			1		1		1	1	1	1	1	1	1			1	1	1	1	2						1

Table 47 : Dinoflagellates in Departure Bay samples.

date	03-May			10-May			17-May			22-May			31-May			08-Jun			14-Jun			21-Jun			28-Jun			05-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																									1		1			
Amphidinium sp.			1	1																										
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.																														
Dinophysioid sp.																													1	
Diplopsalis sp.																														
Gonyaulacoid sp.																										1				
Gymnodinioid sp.	2	3	3	5	4	3	3	1		6	4	5	3	3	2	5	2	3	1	2	1	1	1	3	7	6	3	5	4	2
Gymnodinium galatheanum																									1		2			
Gyrodinium spirale - type				1	1		1	1			1	1		2				1												
Heterocapsa triquetra																														
Noctiluca scintillans																	1													
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides																														
Polykrikos sp.																														
Prorocentrum gracile																												1		
Prorocentrum micans																														
Prorocentrum sp.																														
Protoperidinioid sp.	1		1			1	1			2	1		1	1		3	2	1	1	1	1		1	2	2	2	3	2	1	1
Pyrocystis lunula																											1			1
Raphidophytes																														
Heterosigma akashiwo																									1	1	1	1		

Table 47 cont'd

date	12-Jul			19-Jul			26-Jul			02-Aug			09-Aug			16-Aug			23-Aug			30-Aug			06-Sep			14-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																1														1
Amphidinium sp.																														
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus		1						1						1	1							1	1							
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.																														
Dinophysioid sp.	1								1		1															1				
Diplopsalis sp.																														
Gonyaulacoid sp.																1	1					1			1			1	1	
Gymnodinioid sp.	4		3	3	3	1	4	3	4	3	2	2	3	2	3	1	2	1	6	3	4	8	3	4	3	1	3	3	2	1
Gymnodinium galatheanum																														
Gyrodinium spirale - type									1		1							1		2	2				2		1			
Heterocapsa triquetra																														
Noctiluca scintillans	1																													
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides																														
Polykrikos sp.																														
Prorocentrum gracile							1																							
Prorocentrum micans																														
Prorocentrum sp.																														
Protoperidinioid sp.	3	3				2	1	1				1	1	1	2				4	1	1	2		1	2				2	
Pyrocystis lunula	1					1																								
Raphidophytes																														
Heterosigma akashiwo					1									1	1	1		1	1	1	1		1	1	1			1	1	

Table 47 cont'd

date	20-Sep			27-Sep			04-Oct			11-Oct			18-Oct			25-Oct			01-Nov			08-Nov			15-Nov			22-Nov			29-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																																	
Alexandrium sp.																																	
Amphidinium sp.				1																													
Ceratium divericatum																																	
Ceratium furca																																	
Ceratium fusus																																	
Ceratium lineatum																																	
Ceratium pentagonum																																	
Ceratium sp.																																	
Cochlodinium polykrikoides																																	
Cochlodinium sp.																																	
Dinophysioid sp.																																	
Diplopsalis sp.																										1							
Gonyaulacoid sp.																											1						
Gymnodinioid sp.	6	3	4	6	5	3	6	6	5	3	5	2	6	7	5	5	4	3	5	4	2	4	3	3	1	5	1	3		1	4	2	1
Gymnodinium galatheanum																																	
Gyrodinium spirale - type	2			1	1	2								1				1							1								
Heterocapsa triquetra																																	
Noctiluca scintillans																																	
Noctilucoid sp.																																	
Oxyrrhis marina																																	
Oxyphysis oxytoxoides																																	
Polykrikos sp.																																	
Prorocentrum gracile																																	
Prorocentrum micans																																	
Prorocentrum sp.				1	1																												
Protoperidinioid sp.				4	1		1						1	1	1				1														
Pyrocystis lunula																																	
Raphidophytes																																	
Heterosigma akashiwo				1		1																											

Table 48 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Departure Bay samples.

date	03-May			10-May			17-May			22-May			31-May			08-Jun			14-Jun			21-Jun			28-Jun			05-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum					1					1								1			1			1	1	1	1	1	1	1
Dinobryon balticum																														
Ebria tripartita																													1	
Euglenoid																									1	1				
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	4	5	4	4	5	3	3	2		3	4	4	2	3	3	5	5	3	2	3	2	2	1	2	4	4	4	2	3	4
Zooplankton																														
Amoeba																														
Appendicularian																														
Ciliate	4	3	2	4	3	4	3	2		1	4	1	1	3	1	4	3	3	2	3	1	2	4		8	5	5			
Copepod													1																	
Nauplius						1																								
Pluteus																														
Rotifer																														
Tintinnid	1			1	2								1				1				1				1		1			1
Zoea																														
other																														
Dominant Species/Group																														
name	*Rhizosolenia delicatula*	*Rhizosolenia delicatula*	*Rhizosolenia stolterfothii*	*Chaetoceros socialis*	*Chaetoceros socialis*	*Chaetoceros spp.*	*Skeletonema costatum*	*Skeletonema costatum*	no sample	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Asterionella japonica*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Pseudonitzschia sp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Rhizosolenia setigera*	ciliates	*Chaetoceros spp.*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Rhizosolenia fragilissima*	*Rhizosolenia fragilissima*	*Eucampia zoodiacus*
count (cells/mL)	~100	~110	~50	2,000	1,000	~400	~400	~400		~500	~950	~400	~300	~200	~200	~400	~600	~500	~200	~400	~320	~12	~20	~40	~100	~60	~60	~70	~40	~100
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	85	88	87	70	80	65	85	83	75.5	85	87	86	87	80	88	60	65	80	90	80	85	70	40	85	70	75	75	60	65	60
Dinoflagellates	5	5	8	10	10	20	10	10	15	10	8	10	10	15	8	25	23	10	5	16	10	5	10	10	11	11	12	32	25	10
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0
Other Flagellates	2	2	2	5	5	5	2	2	3.5	3	2	2	1	2	2	2	2	3	2	2	2	5	5	5	3	3	2	5	5	15
Zooplankton	8	5	3	15	5	10	3	5	6	2	3	2	2	3	2	13	10	7	3	2	3	20	45	0	15	10	10	2	5	15
Biomass	3.5	3.0	3.0	4.0	3.5	2.5	3.5	3.0	3.0	3.5	4.0	3.5	3.5	3.5	3.0	3.5	3.5	3.5	3.5	3.0	3.0	1.5	1.5	2.0	3.0	2.5	2.0	3.0	2.5	3.0

Table 48 cont'd

date	12-Jul			19-Jul			26-Jul			02-Aug			09-Aug			16-Aug			23-Aug			30-Aug			06-Sep			14-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum			1			1	1	1		1		1	1	1	1	1			1				1		1	1	1	1	1	1
Dinobryon balticum																			1											
Ebria tripartita			1		1																									
Euglenoid				1	1																	1								
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	3	2	1	4	3	2	2	3	3	3	2	3	3	3	5	4	5	2	7	4	4	4	3	2	4	3	3	3	3	3
Zooplankton																														
Amoeba																			1											
Appendicularian											1																			
Ciliate	3	2	1	3	3	2	2	3	2	3	2	2	5	3	5	5	4	2	6	2	3	3	2	2	6	5	3	2	3	3
Copepod																														
Nauplius							1																		1					
Pluteus																														
Rotifer																1														
Tintinnid	2	1			1														1		1	1			1			2	1	
Zoea																														
other		1								1																	1		1	
Dominant Species/Group																														
name	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Chaetoceros* spp.	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Skeletonema costatum*	*Thalassiosira spp.*	*Heterosigma akashiwo*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Rhizosolenia delicatula*	*Rhizosolenia fragilissima*	*Rhizosolenia fragilissima*	*Rhizosolenia fragilissima*	*Rhizosolenia fragilissima*	*Rhizosolenia fragilissima*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*
count (cells/mL)	~280	~180	~120	~80	~130	~150	~400	~400	~400	~100	~80	~15	~200	~20	~45	1000	~330	~210	~900	~100	~20	~320	~50	~30	~510	~250	~210	1270	1580	~370
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	80	84	87	45	65	80	65	70	70	60	50	50	75	63	30	80	85	90	65	60	60	45	60	70	70	80	90	80	80	85
Dinoflagellates	13	10	8	30	20	10	30	23	25	20	30	25	10	25	20	5	5	5	10	15	10	35	20	20	5	2	2	10	10	5
Raphidophytes	0	0	0	0	3	0	0	0	0	0	0	0	0	2	20	0	0	0	10	10	10	0	<1	1	0	0	0	0	0	0
Other Flagellates	2	2	3	5	7	4	2	3	2	5	2	10	2	2	15	1	2	1	5	5	5	5	10	4	15	5	3	5	2	5
Zooplankton	5	4	2	20	5	6	3	4	3	15	18	15	13	8	15	14	8	4	10	10	15	15	10	5	10	13	5	5	8	5
Biomass	3.0	3.0	2.5	1.5	2.0	2.0	3.0	3.0	3.0	2.5	2.0	1.0	3.0	2.0	2.5	3.0	2.5	2.5	3.5	2.0	2.0	3.0	2.0	2.0	3.5	3.5	2.5	3.5	4.0	3.0

Table 48 cont'd

date	20-Sep			27-Sep			04-Oct			11-Oct			18-Oct			25-Oct			01-Nov			08-Nov			15-Nov			22-Nov			29-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																																	
Cryptomonads																																	
Dictyocha speculum	1	1	1										1	1				1															
Dinobryon balticum																																	
Ebria tripartita																																	
Euglenoid																																	
Phaeocystis pouchetii																																	
Radiolarian																																	
unid. Nanoflagellates	4	4	3	6	3	5	3	5	5	3	3	3	7	4	4	3	2	2	2	4	2	3	5	3	3	3	3	3	1	2	2	1	3
Zooplankton																																	
Amoeba																																	
Appendicularian																																	
Ciliate	6	3	3	5	3	4	3	6	5	1	2	1	7	6	7	4		2	2	3	1		1	2	2	1	2	5	1	2			
Copepod																																	
Nauplius	1		1																											1			
Pluteus																																	
Rotifer																																	
Tintinnid	2		2	2		1	2						1																				
Zoea																																	
other												1													1						1		
Dominant Species/Group																																	
name	*Skeletonema costaum*	*Skeletonema costaum*	*Chaetoceros spp.*	dinoflagellates	*Skeletonema costaum*	*Skeletonema costaum*	tintinnids	gymnodinoid dinoflagellates	ciliates	*Pseudonitzschia sp.*	gymnodinoid dinoflagellates	*Thalassiosira spp.*	dinoflagellates	dinoflagellates	ciliates	*Dityium brightwellii*	*Chaetoceros sp.*	*Dityium brightwellii*	*Dityium brightwellii*	*Dityium brightwellii*	*Dityium brightwellii*	*Rhizosolenia stolterfothii*	*Thalassiosira rotula*	*Thalassiosira rotula*	diatoms	diatoms	*Thalassiosira spp.*	ciliates	*Dityium brightwellii*	*Corethron hystrix*	*Dityium brightwellii*	*Rhizosolenia fragilissima*	*Thalassiosira sp.*
count (cells/mL)	~310	~770	~260	~40	~150	~100	~13	~40	~20	~6	~10	~4	~80	~60	~50	~4	~10	~2	~1	~4	~1	~8	~5	~9	~13	~16	~5	~11	~1	~1	~1	~2	~2
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	48	75	58	25	65	65	5	0	40	90	40	95	15	25	30	85	64	85	55	75	85	90	90	90	90	89	85	10	90	80	59	85	75
Dinoflagellates	20	10	15	30	20	10	30	55	25	7	55	2	40	35	25	10	35	5	40	10	10	9	5	5	3	9	10	4	0	1	20	14	20
Raphidophytes	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	2	2	2	10	5	5	1	5	5	1	1	1	15	5	5	1	1	5	1	1	1	1	3	1	1	1	1	1	1	1	1	1	5
Zooplankton	30	13	25	25	10	20	64	40	30	2	4	2	30	35	40	4	0	5	4	14	4	0	2	4	6	1	4	85	9	18	20	0	0
Biomass	3.5	3.5	3.0	2.0	2.0	2.0	3.0	1.5	2.0	1.0	1.0	1.0	2.5	2.5	2.0	2.0	1.0	2.0	1.0	2.0	1.0	1.5	1.5	1.5	1.5	1.5	1.0	1.5	1.0	1.5	1.0	1.0	1.0

Table 49 : Diatoms in Coffin Point samples.

date	8-May			15-May			22-May			29-May			5-Jun			14-Jun			19-Jun			27-Jun			3-Jul			11-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis									1			1		1		1		1			1									
Asterionella japonica	1	1		1	1	1	1	1	1						1			1												
Bacteriastrum sp.																														
Biddulphia sp.				1																										
Cerautalina sp.				1																								1		
Chaetoceros concavicorne																														
Chaetoceros convolutus	1	1	1	1	1	1	1	1	1		1	1			1															
Chaetoceros sp.	5	3	5	6	7	4	7	7	8	2	3	3	6	8	5	3	2	2	5	4	2	1	1		1	1		6	2	2
Corethron hystrix	1	1																												
Coscinodiscus sp.																												1		
Cylindrotheca closterium			1	1		1		1	1				1	1	1		1							1						1
Dactylisolen sp.																														
Detonula pumila							1		1						1															
Ditylum brightwellii														1																
Eucampia zoodiacus			1	1				1		1	1	1				1			1	1	1	1	1		1	1		1	1	1
Grammatophora sp.																														
Hemiaulus sp																														
Lauderia annulata																														
Leptocylindrus danicus		1		1					1	1			1					1		1	1							1	1	
Leptocylindrus minimus																														
Licmophora sp.																														
Melosira sp.																														
Navicula sp.			1	1									1	1	1		1			1										
Nitzschioid sp.	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	2		1			1	1	1	1
Pleurosigma/ Gyrosigma sp.																														1
Rhizosolenia setigera				1	1	1				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Rhizosolenia sp. (pointy)	1		1				1	1	1											1										
Rhizosolenia sp. (blunt)						1	1	1	1	1	1						1							1		1			1	1
Rhizosolenia stolterfothii					1		1	1	1	1		1																		
Skeletonema costatum	1	1	1	1	1	1	1	1	1	1	1	1		1	1			1	1	1	1	1						1		
Stephanopyxis sp.				1										1			1	1		1										
Thalassionema sp.						1	1	1	1									1			1									
Thalassiosira sp.			1	1		1	1	1	2	2	2	2	1	2	2	2	2	2	2	2	2	1		2	1	1	1	1	1	1

Table 49 cont'd

date	19-Jul			26-Jul			2-Aug			10-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms												
Achnanthes sp.												
Amphiproral Tropidoneis												
Asterionella japonica					1			1				
Bacteriastrum sp.												
Biddulphia sp.			1	1	1	1			1			1
Cerautalina sp.												
Chaetoceros concavicorne												
Chaetoceros convolutus												
Chaetoceros sp.	1	2	4	6	5	5	5	6	5		3	1
Corethron hystrix												
Coscinodiscus sp.								1				1
Cylindrotheca closterium				1				1			1	1
Dactylisolen sp.									1			
Detonula pumila												
Ditylum brightwellii			1	1	1	1	1	1	1	1	1	1
Eucampia zoodiacus			1						1	1	1	1
Grammatophora sp.												
Hemiaulus sp.												
Lauderia annulata												
Leptocylindrus danicus	1			1	1	1	1			1	1	1
Leptocylindrus minimus												
Licmophora sp.												
Melosira sp.												
Navicula sp.			1				1		1	1		
Nitzschioid sp.	2	1	2	1	1	1	1	1	1			1
Pleurosigma/ Gyrosigma sp.								1		1		1
Rhizosolenia setigera	1	1	1	1	1	1	1	1	1	1		
Rhizosolenia sp. (pointy)		1				1	1	1				
Rhizosolenia sp. (blunt)											1	
Rhizosolenia stolterfothii												
Skeletonema costatum												
Stephanopyxis sp.				1								
Thalassionema sp.			1			1		1			1	
Thalassiosira sp.		1	1	1		1	1	1	1	2	1	1

Table 50 : Dinoflagellates in Coffin Point samples.

date	8-May			15-May			22-May			29-May			5-Jun			14-Jun			19-Jun			27-Jun			3-Jul			11-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																												1		
Amphidinium sp.	1																													
Ceratium divericatum																														
Ceratium furca													1																	
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.																2	1		1		1								1	2
Dinophysioid sp.		1																												
Gonyaulacoid sp.																														
Gymnodinioid sp.	5	4	4	4	2	4	2	3	3	3	4	3	5	5	6	2	5	2	4	3	4	3	3	4	4	2	4	10	4	7
Gymnodinium galatheanum																												2		
Gyrodinium spirale1	1	1		1	1				1		1	1	1	1	1	1	1	1		1				1	1	1				
Heterocapsa triquetra								1	1					1		1				1		1				1	1			
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum sp.																														
Protoperidinioid sp.	1	1	1	2	1	3			2	1	2	1	5	3	2	3	3	1	1	2	2		1	1		2	2	4	2	4
Pyrocystis lunula																													1	1
Raphidophytes																									1					
Heterosigma akashiwo																														

Table 50 cont'd

date	19-Jul			26-Jul			2-Aug			10-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates												
Alexandrium sp.												
Amphidinium sp.									1			
Ceratium divericatum												
Ceratium furca												
Ceratium fusus		1				1	1	1			1	
Ceratium lineatum												
Ceratium pentagonum												
Ceratium sp.												
Cochlodinium polykrikoides												
Cochlodinium sp.												
Dinophysioid sp.	1			1							1	
Gonyaulacoid sp.							1	1				
Gymnodinioid sp.	4	3	2	4	4	2	4	3	1	4	4	4
Gymnodinium galatheanum												
Gyrodinium spirale1		1	1		1	1	2	2	1			
Heterocapsa triquetra							1					
Noctiluca scintillans	1	1										
Noctilucoid sp.												
Oxyrrhis marina												
Oxyphysis oxytoxoides												
Polykrikos sp.												
Prorocentrum gracile		1		1	1							
Prorocentrum micans												
Prorocentrum sp.												
Protoperidinioid sp.	1	2	1	2	3	1	2	1		1	1	2
Pyrocystis lunula												
Raphidophytes												
Heterosigma akashiwo	1									1	1	1

Table 51 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Coffin Point samples.

date	8-May			15-May			22-May			29-May			5-Jun			14-Jun			19-Jun			27-Jun			3-Jul			11-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads													1								1				1			1		1
Dictyocha speculum	1	1	1		1			1																				1		
Dinobryon balticum																														
Ebria tripartita																														
Euglenoid	1	1											1																	
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	3	3	3	2	3	2	4	3	4	2	4	3	4	4	4	2	3	2	3	3	4	3	3	2	3	2	3	5	3	2
Zooplankton																									1				1	1
Amoeba																														
Appendicularian																														
Ciliate	3	4	2	2	2	2		2	2	4	2	2	2	3	6	2	4	1	5	3	3	2	4	2	3	3	3	5	3	3
Copepod																							1							
Nauplius						1							1	1																
Pluteus														1														1		
Rotifer																		1										1		1
Tintinnid										1																				
Zoea																														
other																														
Dominant Species/Group																														
name	*Skeletonema costatum*	*Dictyocha speculum*	*Skeletonema costatum*	*Chaetoceros convolutus*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Asterionella japonica*	*Chaetoceros convolutus*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*
count (cells/mL)	1,600	~230	~800	~90	~700	~500	1,400	~200	~182	~520	~250	~600	~310	~260	~90	3,100	1,100	1,000	2,620	2,020	1,480	~810	~830	1,500	~780	~600	~380	2400	2200	~410
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	45	40	48	90	88	85	93	72	85	75	70	75	75	83	80	80	75	90	85	85	86	60	40	90	76	79	75	75	78	55
Dinoflagellates	10	10	10	8	10	12	5	20	10	15	25	20	15	10	10	17	20	7	9	13	10	24	20	5	15	10	14	13	15	33
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
Other Flagellates	40	45	40	1	1	1	2	3	2	2	3	2	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	2	2	2
Zooplankton	5	5	2	1	1	2	0	5	3	8	2	3	9	6	9	2	4	2	5	1	3	15	39	4	5	10	10	10	5	10
Biomass	4.0	4.0	4.0	3.5	3.5	3.5	4.0	3.0	3.5	3.5	3.0	3.5	3.0	3.0	2.5	4.0	3.5	3.5	4.5	4.0	3.5	3.0	3.5	4.0	3.0	2.5	2.5	4.0	4.0	3.0

Table 51 cont'd

date	19-Jul			26-Jul			2-Aug			10-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates												
Cryptomonads												
Dictyocha speculum	1				1	1	1	1	1	1	1	1
Dinobryon balticum												
Ebria tripartita												
Euglenoid										1		
Phaeocystis pouchetii												
Radiolarian												
unid. Nanoflagellates	3	2	3	5	2	1	5	3	4	2	3	2
Zooplankton												
Amoeba												
Appendicularian												
Ciliate	4	2	1	3	4	2	4	4	2	5	3	1
Copepod												
Nauplius												
Pluteus												
Rotifer												
Tintinnid												
Zoea												
other												
Dominant Species/Group												
name	*Gymnodinioid dinoflagellates*	*Gymnodinioid dinoflagellates*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Dictyocha spp.*	*Dictyocha spp.*	*Chaetoceros spp.*	*Heterosigma akashiwo*	*Dictyocha spp.*	*Ditylum brightwellii*
count (cells/mL)	~120	~110	~45	~415	~490	~170	~150	~110	~770	~400	~110	~60
% constituent	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	15	20	80	50	55	65	20	20	75	20	25	60
Dinoflagellates	60	70	15	25	30	25	15	15	12	10	15	15
Raphidophytes	0	0	0	0	0	0	0	0	0	25	10	8
Other Flagellates	15	2	1	3	1	1	60	60	10	35	45	15
Zooplankton	10	8	4	22	14	9	5	5	3	10	5	2
Biomass	2.5	2.5	2.0	3.5	3.5	3.0	3.5	3.5	3.0	3.5	3.0	3.0

Table 52 : Diatoms in Saltspring Island samples.

date	17-May			24-May			31-May			07-Jun			21-Jun			28-Jun			05-Aug			17-Aug			24-Aug			31-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																														
Asterionella japonica	1	1	1	1	1	1	1		1	1		1	1	1																
Bacteriastrum sp.																														
Biddulphia sp.								1												1										
Campylosira/Plagiogramma																														
Cerataulina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus	1	1	1		1	1	1		1																					
Chaetoceros sp.	6	4	5	7	9	7	7	7	6	7	6	5	3	4	6	2	2	1	5	5	4								2	
Corethron hystrix					1																									
Coscinodiscus sp.																				1	1		1				1		1	
Cylindrotheca closterium					1	1	1		1	1	1		1			1			1											
Dactyliosolen sp.																														
Detonula pumila				1			1	1	1			1																		
Ditylum brightwellii								1					1						1	1	1	1	1	1	1	1	1		1	1
Eucampia zoodiacus							1			1	1		1	1	1	1	1	1	1	1									1	
Grammatophora sp.																							1							
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus					1		1		1			1			1		1	1	1	1	1						1	1		
Leptocylindrus minimus																														
Licmophora sp.																							1			1				
Melosira sp.		1						1						1					1											1
Navicula sp.															1				1	1									1	
Nitzschioid sp.	1	1	1	1	1	1	1		1	2	1	1	2	1	1		1	1		1										
Pleurosigma/ Gyrosigma sp.										1								1												
Rhizosolenia setigera		1	1				1	1	1	1	1	1	1	1	1	1	1	1	1	1										
Rhizosolenia sp. (pointy)	1			1	1	1															1									
Rhizosolenia sp. (blunt)																		1			1			1				1	1	1
Rhizosolenia stolterfothii				1	1		1	1						1															1	
Skeletonema costatum	1	1	1	1	1	1	1	1	1	1		1	1	1	1			1			1							1		
Stephanopyxis sp.																			1											
Striatella/Rhabdonema																														
Thalassionema sp.							1						1				1	1	1	1	1									
Thalassiosira sp.	1	1	1	2	2	1	2	2	2	2	2	2	2	2	3	1	1	1	1	1	1	1		1			1	1	1	1

Table 52 cont'd

date	06-Sep			13-Sep			20-Sep			27-Sep			04-Oct			11-Oct			18-Oct			25-Oct			01-Nov			08-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																														
Asterionella japonica				1	1	1		1	1	1	1	1			1			1												
Bacteriastrum sp.																														
Biddulphia sp.	1																													
Campylosira/Plagiogramma																														
Cerataulina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus								1	1			1	1							1										
Chaetoceros sp.	6	5	7	10	8	9	6	5	6	8	5	7	1		1	1				1	2		2	2			2	1	1	
Corethron hystrix																					1									
Coscinodiscus sp.				1					1	1		1		1		1											1			
Cylindrotheca closterium							1	1	1		1						1			1					1					
Dactyliosolen sp.												1																		
Detonula pumila														1																
Ditylum brightwellii		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Eucampia zoodiacus	1	1	1	1	1	1	1	1	1	1	1	1								1	1	1	1	1					1	
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata							1	1	1	1	1	1																		1
Leptocylindrus danicus		1	1	1	1	1	1	1	1	1	1	1	1	1	1		1													
Leptocylindrus minimus							1		1			1					1				1									
Licmophora sp.			1						1					1																
Melosira sp.				1	1	1			1					1	1			1		1					1					
Navicula sp.	1	1	1							1											1				1					
Nitzschioid sp.							1				2	2			1	1	1	1		1	1		1		1					1
Pleurosigma/ Gyrosigma sp.					1																									
Rhizosolenia setigera							1	1		1			1	1	1	1				1	1									
Rhizosolenia sp. (pointy)				1	1	1	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
Rhizosolenia sp. (blunt)	2	2	2	1		1				1	1							1	1			1	1							
Rhizosolenia stolterfothii	1	1	1						1		1	1									1		1				1			
Skeletonema costatum	1	1	1	1	1	1	1	1	1	1	1	1			1							1							1	
Stephanopyxis sp.																														
Striatella/Rhabdonema																														
Thalassionema sp.					1	1	1	1		1	1	1	1	1	1			1		1	1	1	1	1				1	1	
Thalassiosira sp.	1	1	2	2	2	2	1	2	1	2	2	1		1		1	1	1	1	1	1	1	1	1	1	1	1	2	1	2

Table 52 cont'd

date	15-Nov			22-Nov			29-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms									
Achnanthes sp.									
Amphiprora/ Tropidoneis									
Asterionella japonica									
Bacteriastrum sp.									
Biddulphia sp.									
Campylosira/Plagiogramma									
Cerautalina sp.									
Chaetoceros concavicorne									
Chaetoceros convolutus									
Chaetoceros sp.	1	1						1	
Corethron hystrix									
Coscinodiscus sp.									
Cylindrotheca closterium									
Dactylisolen sp.									
Detonula pumila						1			
Ditylum brightwellii	1	1		1			1		1
Eucampia zoodiacus						1			
Grammatophora sp.									
Hemialus sp.									
Lauderia annulata									
Leptocylindrus danicus	1								
Leptocylindrus minimus									
Licmophora sp.									
Melosira sp.	1	1	1	1		1			
Navicula sp.									
Nitzschiold sp.		1		1					
Pleurosigma/ Gyrosigma sp.									
Rhizosolenia setigera									
Rhizosolenia sp. (pointy)									
Rhizosolenia sp. (blunt)					1				
Rhizosolenia stolterfothii									
Skeletonema costatum									
Stephanopyxis sp.									
Striatella/Rhabdonema									
Thalassionema sp.	1								
Thalassiosira sp.		2	2	1	1	1			

Table 53 : Dinoflagellates in Saltspring Island samples.

date	17-May			24-May			31-May			07-Jun			21-Jun			28-Jun			05-Aug			17-Aug			24-Aug			31-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.							1							1				1												
Amphidinium sp.											1																			
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																			1	1								1	1	1
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																									1	1		1	1	
Cochlodinium sp.																														
Dinophysioid sp.									1				1	1		1	1								1	1		1		1
Gonyaulacoid sp.																							1	1					1	2
Gymnodinioid sp.	1	2	2	4	4	3	2	2	2	3	3	1	1	1	2	2	1	3	3	4	2	4	3	5	6	3	3	6	5	3
Gymnodinium galatheanum																														
Gyrodinium spirale-type										1	1														2	1	1	1	2	1
Heterocapsa triquetra													1		1															
Noctiluca scintillans							1			1			1				1													
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum sp.																						1		1				1	1	1
Protoperidinioid sp.		1			1		2	2	3	1		1	1	1	1	3	3	5	1	1										
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																								1	1					

Table 53 cont'd

date	06-Sep			13-Sep			20-Sep			27-Sep			04-Oct			11-Oct			18-Oct			25-Oct			01-Nov			08-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.											1																			
Amphidinium sp.																				1										
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus	1		1		1		1			1		1																		
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides							1	1	1																					
Cochlodinium sp.																														
Dinophysioid sp.	1			1	1	1																								
Gonyaulacoid sp.	1	1	1										1											1						
Gymnodinioid sp.	1	2	2	5	3	2	3	2	3	3	1	2	4	3	2	3	3	3	3	5	3	4	2	2	1	2	2	2	2	2
Gymnodinium galatheanum																														
Gyrodinium spirale-type					2				1	1								1												
Heterocapsa triquetra																														
Noctiluca scintillans											1					1				1										
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile										1																				
Prorocentrum micans																														
Prorocentrum sp.																						1								
Protoperidinioid sp.	1	5	1	3	4	2	1	1	1			1													2					
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 53 cont'd

date	15-Nov			22-Nov			29-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates									
Alexandrium sp.									
Amphidinium sp.									
Ceratium divericatum									
Ceratium furca									
Ceratium fusus									
Ceratium lineatum									
Ceratium pentagonum									
Ceratium sp.									
Cochlodinium polykrikoides									
Cochlodinium sp.									
Dinophysioid sp.									
Gonyaulacoid sp.									
Gymnodinioid sp.	2			1	1		2	3	3
Gymnodinium galatheanum									
Gyrodinium spirale-type			1						
Heterocapsa triquetra									
Noctiluca scintillans									
Noctilucoid sp.									
Oxyrrhis marina									
Oxytoxum sp.									
Polykrikos sp.									
Prorocentrum gracile									
Prorocentrum micans									
Prorocentrum sp.									
Protoperidinioid sp.									
Pyrocystis lunula									
Raphidophytes									
Heterosigma akashiwo									

Table 54 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Saltspring Island samples.

date	17-May			24-May			31-May			07-Jun			21-Jun			28-Jun			05-Aug			17-Aug			24-Aug			31-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum													1						1	1	1	1	1	1	1	1	1	1	1	1
Dinobryon balticum																														
Ebria tripartita																														
Euglenoid				1																							1	1		
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	2	3	2	3	4	4	3	2	3	3	2	3	2	2	3	3	5	5	6	3	4	3	3	2	3	3	4	3	4	4
Zooplankton																														
Appendicularian																														
Ciliate	2	3	2	2	4	2	2	1	2	3	3	1	1	2	1	1	3	1	2	2	1		1		3	2	1	2	2	3
Copepod																														
Nauplius			1																											1
Pluteus																														
Rotifer																	1													
Tintinnid																		1												
Zoea																														
other															1															
Dominant Species/Group																														
name	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Dictyocha speculum*	*Dictyocha speculum*	*Dictyocha speculum*	*Dictyocha speculum*	*Dictyocha speculum*	*Dictyocha speculum*	*Rhizosolenia fragilissima*	*Rhizosolenia fragilissima*	*Ditylum brightwellii*
count (cells/mL)	~570	1000	~900	1800	1500	~800	~320	~330	~220	2500	1000	~500	~810	~760	1400	1100	2300	1500	~770	~420	~450	~54	~47	~40	~34	~45	~25	~15	~22	~3
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	90	94	93	88	85	85	94	95	92	85	90	92	80	85	95	80	88	87	55	70	73	10	13	13	5	5	9	50	90	95
Dinoflagellates	4	3	3	8	10	10	3	3	5	11	7	6	15	10	3	13	5	8	10	10	5	2	2	2	20	5	5	25	9	3
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	1	1	1	1	1	2	1	1	1	1	1	1	4	1	1	5	2	2	30	15	20	88	84	85	70	88	85	24	1	1
Zooplankton	5	2	3	3	4	3	2	1	2	3	2	1	1	4	1	2	5	3	5	5	2	0	1	0	5	2	1	1	0	1
Biomass	3.5	3.5	3.5	4.0	4.0	3.5	4.0	4.0	3.5	4.0	4.0	3.0	3.5	3.0	3.5	3.5	4.0	4.0	3.0	3.0	3.0	2.5	2.5	2.5	2.5	2.5	2.0	1.5	1.5	1.5

Table 54 cont'd

date	06-Sep			13-Sep			20-Sep			27-Sep			04-Oct			11-Oct			18-Oct			25-Oct			01-Nov			08-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum	1	1	1	1	1	1	1	1			1				1															
Dinobryon balticum																														
Ebria tripartita																														
Euglenoid						1						1																		
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	3	2	3	4	4	2	3	2	2	3	3	3	4	3	5	3	4	2	2	3	2	2	2	1	1	2	2	3	3	4
Zooplankton																														
Appendicularian	1																													
Ciliate	5		2	2	4	1	2	1	3		3	1	2	3	5		1	1								3	1		1	1
Copepod																														
Nauplius				1												1			1											
Pluteus																														
Rotifer																														
Tintinnid				1	2	1				1						1	1													
Zoea																														
other											1														1					
Dominant Species/Group																														
name	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Dityium brightwellii*	*Chaetoceros spp.*	*Dityium brightwellii*	*Dityium brightwellii*	*Dityium brightwellii*	*Dityium brightwellii*	*Dityium brightwellii*	*Dityium brightwellii*	*Dityium brightwellii*	*Dityium brightwellii*	*Dityium brightwellii*	*Dityium brightwellii*	*Dityium brightwellii*	*Dityium brightwellii*	*Dityium brightwellii*	*Dityium brightwellii*	*Dityium brightwellii*	*Dityium brightwellii*	*Dityium brightwellii*	*Dityium brightwellii*	*Dityium brightwellii*	*Dityium brightwellii*	*Dityium brightwellii*	*Dityium brightwellii*
count (cells/mL)	~400	~200	~200	4700	2260	3500	~180	~24	~850	~130	~130	~100	~10	~20	~19	~25	~17	~11	~9	~17	~17	~19	~13	~9	~10	~10	~13	~6	~4	~6
% constituent	100	100	100	100	100	101	100	100	100							100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	85	85	85	90	85	93	65	85	85	90	90	90	90	95	93	85	95	95	95	90	97	95	97	95	90	87	95	95	95	95
Dinoflagellates	8	12	10	5	10	5	30	13	12	7	6	8	5	1	1	10	2	3	3	9	2	4	2	4	7	4	3	3	3	2
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	3	3	3	2	1	1	2	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1
Zooplankton	4	0	2	3	4	2	3	1	2	2	2	1	4	3	5	4	2	1	1	0	0	0	0	0	2	8	1	0	1	2
Biomass	3.5	3.0	3.0	4.5	4.5	4.5	3.0	3.0	3.5	3.5	4.0	3.5	2.5	3.0	3.0	3.0	3.0	2.5	2.5	3.0	3.0	3.0	3.0	2.5	1.5	1.5	2.0	2.0	2.0	2.0

Table 54 cont'd

date	15-Nov			22-Nov			29-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates									
Cryptomonads									
Dictyocha speculum									
Dinobryon balticum									
Ebria tripartita									
Euglenoid									
Phaeocystis pouchetii									
Radiolarian									
unid. Nanoflagellates	3	3	3	2	2	1	3	2	2
Zooplankton									
Appendicularian									
Ciliate		1		1				1	1
Copepod									
Nauplius	1								
Pluteus									
Rotifer									
Tintinnid									
Zoea									
other									
Dominant Species/Group									
name	*Ditylum brightwellii*	*Ditylum brightwellii*	*Thalassiosira spp.*	*Ditylum brightwellii*	*Rhizosolenia fragilissima*	*Detonula pumila*	*Ditylum brightwellii*	*Chaetoceros sp.*	*Ditylum brightwellii*
count (cells/mL)	1/3	1/4	1/3	1/1	1/6	1/8	1/1	1/4	1/1
% constituent	100	100	100	100	100	100	100	100	100
Diatoms	90	98	90	90	95	99	75	60	75
Dinoflagellates	5	0	9	4	4	0	20	20	15
Raphidophytes	0	0	0	0	0	0	0	0	0
Other Flagellates	1	1	1	1	1	1	5	5	1
Zooplankton	4	1	0	5	0	0	0	15	9
Biomass	2.0	2.0	1.5	1.5	1.5	2.0	1.0	1.0	1.0

Table 55 : Diatoms in Jane Bay samples.

date	27-Apr			11-May			16-May			25-May			01-Jun			08-Jun			15-Jun			22-Jun			29-Jun			06-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																											1			
Asterionella japonica											1														1					
Bacteriastrum sp.											1	1	1	1		1	1	1	1	1							1			
Biddulphia sp.																														
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus							1	1	1											1							1			
Chaetoceros sp.			1	2	4	3	4	6	7	4	4	2	2	7	4	4	7	5	2	2	3	2	2	4	1	2	4			1
Corethron hystrix		1	1		1	1		1																						
Coscinodiscus sp.																														
Cylindrotheca closterium					1	1	1	1	1					1		1	1	1		1				1				1		
Dactylisolen sp.							1		1				1	1	1	1	1	1	1	1										
Detonula pumila																														
Ditylum brightwellii	1				1				1				1	1	1		1	1			1		1							
Eucampia zoodiacus	1					1		1	1					1																
Grammatophora sp.																														
Hemiaulus sp.																														
Lauderia annulata																														
Leptocylindrus danicus	1	1	1		1	1	1	1	1				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Leptocylindrus minimus														1																
Licmophora sp.																														
Melosira sp.																														
Navicula sp.				1			1	2	1			1	1			1														
Nitzschioid sp.	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			1
Plagiogramma sp.															1															
Pleurosigma/ Gyrosigma sp.					1	1																								
Rhizosolenia setigera							1	1	1					1			1	1	1	1	1	1	1	1	1	1	1		1	
Rhizosolenia sp. (pointy)	1	1	1			1		1	1	1	1			1	1		1						1	1					1	
Rhizosolenia sp. (blunt)																														
Rhizosolenia stolterfothii						1				1		1				1	1	1		1	1		1	1	1	1	1			
Skeletonema costatum	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1			
Stephanopyxis sp.																														
Thalassionema sp.	1	1	1	1	1		1	1	1										1		1					1	1			
Thalassiosira sp.		1	1	1	2	1	2	2	2	1		1	1	1	1	1	1	1						1	1	2	1	1		2
Thalassiothrix sp.																														

Table 55 cont'd

date	13-Jul			20-Jul			03-Aug			10-Aug			17-Aug			24-Aug			07-Sep			14-Sep			21-Sep			28-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																														
Asterionella japonica						1				1	1				1														1	
Bacteriastrum sp.																														
Biddulphia sp.															1									1						
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus																														
Chaetoceros sp.	1	1			2	1				4	3	3	5	4			3	5				3	1	2	6	3		3	3	4
Corethron hystrix																														
Coscinodiscus sp.																							1		1				1	
Cylindrotheca closterium	1									1	1		1		1															
Dactylisolen sp.										1			1						1	1						1	1			
Detonula pumila																		1												
Ditylum brightwellii													1					1		1			1	1	1			1	1	
Eucampia zoodiacus																				1								1	1	1
Grammatophora sp.																														
Hemiaulus sp.																														
Lauderia annulata																														
Leptocylindrus danicus	1	1	1	1	1	1						1	1					1		1								1	1	1
Leptocylindrus minimus							1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Licmophora sp.																														
Melosira sp.											1																			
Navicula sp.																					1				1	1				
Nitzschioid sp.		1		1	1	1	1	1							1		1					1	1	1	1	1	1	1	1	
Plagiogramma sp.																														
Pleurosigma/ Gyrosigma sp.																														
Rhizosolenia setigera														1							1						1	1		
Rhizosolenia sp. (pointy)																												1	1	1
Rhizosolenia sp. (blunt)																	1			1	1	1	1	1	1	1	1	1	1	1
Rhizosolenia stolterfothii				1				1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Skeletonema costatum		1			1			1		1	1	1	1	1	1		1		1	1	1	1	1	1	1	1	1	1	1	1
Stephanopyxis sp.																														
Thalassionema sp.					1			1		1	1		1		1		1	1	1				1		1					
Thalassiosira sp.		1	1	1	1	2				1	1	1	2	1	1	1	1	1		1	1	1	2	2	2		1		1	1
Thalassiothrix sp.																														

Table 55 cont'd

date	05-Oct			12-Oct		
depth	1m	5m	10m	1m	5m	10m
Diatoms						
Achnanthes sp.						
Amphiproral Tropidoneis						
Asterionella japonica				1	1	
Bacteriastrum sp.						
Biddulphia sp.						
Cerautalina sp.						
Chaetoceros concavicorne						
Chaetoceros convolutus						
Chaetoceros sp.	4	3	3	1		
Corethron hystrix						
Coscinodiscus sp.						
Cylindrotheca closterium						
Dactylisolen sp.						1
Detonula pumila						
Ditylum brightwellii	1	1	1	1	1	1
Eucampia zoodiacus	1	1		1	1	1
Grammatophora sp.						
Hemiaulus sp.						
Lauderia annulata						
Leptocylindrus danicus	1	1		1	1	1
Leptocylindrus minimus						
Licmophora sp.						
Melosira sp.						
Navicula sp.						
Nitzschioid sp.	1	1	1	1	1	1
Plagiogramma sp.						
Pleurosigma/ Gyrosigma sp.						
Rhizosolenia setigera	1			1	1	1
Rhizosolenia sp. (pointy)	1	1		1	1	1
Rhizosolenia sp. (blunt)						
Rhizosolenia stolterfothii	1	1	1	1	1	1
Skeletonema costatum	1	1	1			1
Stephanopyxis sp.						
Thalassionema sp.				1	1	1
Thalassiosira sp.	1	1			1	
Thalassiothrix sp.					1	

Table 56 : Dinoflagellates in Jane Bay samples.

date	27-Apr			11-May			16-May			25-May			01-Jun			08-Jun			15-Jun			22-Jun			29-Jun			06-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																										1			1	1
Amphidinium sp.								1			1	1		1							1									
Ceratium divaricatum																														
Ceratium furca							1																							
Ceratium fusus								1	1		1			1									1						1	
Ceratium lineatum														1							1								1	
Ceratium pentagonum																														
Ceratium sp.														1				1												1
Cochlodinium polykrikoides					1																									
Cochlodinium sp.																														
Dinophysioid sp.							1		1		1					1	1		1	1	2		2			2			2	1
Diplopsalis sp.																1	1													
Gonyaulacoid sp.							2											1											1	
Gymnodinioid sp.	3	4	4	3	4	4	6	5	4	3	3	2	4	7	3	6	9	7	3	4	4	1	4	1	2	5	2	3	2	3
Gymnodinium galatheanum																														
Gyrodinium spirale-type		1			1		1	2	1		1	1	1	1	1	2	1	2	1		1				1	1	1		1	3
Heterocapsa triquetra	1	1		1	1		1		1	1	1		1	1	1	1	1	1	1			1	1		1	1		1	1	
Noctiluca scintillans									1					1	1												1			1
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides							1																1					1		
Polykrikos sp.																														
Prorocentrum gracile																	1						1		1	1		1	1	1
Prorocentrum micans																														1
Prorocentrum sp.									1									1												
Protoperidinioid sp.		1		1	2	1	1	3	4	1		1	3	3	1	1	1	2		1	1				2	3	3	3	3	4
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 56 cont'd

date	13-Jul			20-Jul			03-Aug			10-Aug			17-Aug			24-Aug			07-Sep			14-Sep			21-Sep			28-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.		1	1		1															1									1
Amphidinium sp.								1						1																
Ceratium divaricatum																										1	1			
Ceratium furca		1	1																	1						1	1		1	
Ceratium fusus		1			1	1		1	1		1																			1
Ceratium lineatum		1					1	1					1																	
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides										1	1	1				1	1			1			1	1						
Cochlodinium sp.																														
Dinophysioid sp.		1					1						1	1		1				1			2		1	1			1	
Diplopsalis sp.	1					2		1		1			1	1		1	1					1	1							
Gonyaulacoid sp.							1	1		1	2	1	1	1					1	1										
Gymnodinioid sp.	6	5	4	3	5	2	5	4	3	8	6	5	5	6	5	8	8	3	6	5	3	6	5	6	5	7	7	4	4	3
Gymnodinium galatheanum																														
Gyrodinium spirale-type		1								1	1	2	1		2		1			2			2		2	3	1	2	2	2
Heterocapsa triquetra	1	1		1	1		1	1	1	1	1	1		1		1	1	1	1	1		1	1		1				1	
Noctiluca scintillans		1																												
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides								1		1	1		1										1			1				
Polykrikos sp.																														
Prorocentrum gracile	1	1	1	1	1	1	1	1	1	1	1	1		1		1	1	1	1	1	1	1	1	1	1			1		
Prorocentrum micans							1	1		1	1			1		1						1	1		1			1		1
Prorocentrum sp.										1	1				1							1		1						
Protoperidinioid sp.	5	2	2	2	3	1	1	1		3	5	1	1	3		2	1	3	2	2	1	6	4	1		4	1	1	3	1
Pyrocystis lunula														1			1													
Raphidophytes																														
Heterosigma akashiwo										1	1	1	1	1		1	1		1	1	1	1			1					

Table 56 cont'd

date	05-Oct			12-Oct		
depth	1m	5m	10m	1m	5m	10m
Dinoflagellates						
Alexandrium sp.						
Amphidinium sp.					1	
Ceratium divaricatum				1		
Ceratium furca		1				1
Ceratium fusus					1	1
Ceratium lineatum						
Ceratium pentagonum						
Ceratium sp.						
Cochlodinium polykrikoides						
Cochlodinium sp.						
Dinophysioid sp.		1		1	1	
Diplopsalis sp.						
Gonyaulacoid sp.						
Gymnodinioid sp.	4	5	3	2	5	5
Gymnodinium galatheanum						
Gyrodinium spirale-type	1	1		1	2	
Heterocapsa triquetra						
Noctiluca scintillans						
Noctilucoid sp.						
Oxyrrhis marina						
Oxyphysis oxytoxoides						
Polykrikos sp.						
Prorocentrum gracile	1					
Prorocentrum micans	1			1	1	
Prorocentrum sp.	1	1				
Protoperidinioid sp.	2					
Pyrocystis lunula						
Raphidophytes						
Heterosigma akashiwo						

Table 57 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Jane Bay samples.

date	27-Apr			11-May			16-May			25-May			01-Jun			08-Jun			15-Jun			22-Jun			29-Jun			06-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum					1			1			1	1		1	1	1		1			1							1		1
Dinobryon balticum														1			1	1												
Ebria tripartita	1								1																1	1	1			
Euglenoid			1																											
Phaeocystis pouchetii																														
unid. Nanoflagellates	5	4	5	4	3	5	4	5	6	4	3	3	4	5	4	5	6	3	2	3	3	2	2	2	3	3	3	2	2	1
Zooplankton																														
Amoeba																														
Appendicularian																	1													
Ciliate	4	3	3	3	4	3	7	7	6	3	2	2	4	5	3	2	4	5	2	3	2	2	2	2	1	4	3	3	2	
Copepod																														
Nauplius	1																													
Pluteus																														
Radiolarian																								1						
Rotifer									1																					
Tintinnid			1					2					1		2		1	2	1		1	1	1					1		1
Zoea																														
other																														
Dominant Species/Group																														
name	*Skeletonema costatum*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Leptocylindrus danicus*	*Leptocylindrus danicus*	*Pseudonitzschia sp.*	*Skeletonema costatum*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Leptocylindrus danicus*	*Leptocylindrus danicus*	*Pseudonitzschia sp.*	*Leptocylindrus danicus*	*Leptocylindrus danicus*	*Leptocylindrus danicus*
count (cells/mL)	2200	870	460	3000	3400	700	2600	1600	3800	14000	7000	6200	2800	1200	750	1500	1200	2600	300	580	1800	200	1250	530	1500	2000	1000	2200	~200	~100
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	82	75	80	83	80	75	70	75	75	85	80	86	60	70	80	80	80	79	80	75	80	90	77	95	68	70	80	60	40	36
Dinoflagellates	8	15	10	10	10	15	20	15	15	10	15	10	30	20	10	17	10	12	15	20	15	5	20	3	20	20	15	35	55	60
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	2	1	2	2	3	2	1	1	1	2	3	2	1	1	1	1	5	3	1	2	2	2	1	1	10	3	2	1	2	3
Zooplankton	8	9	8	5	7	8	9	9	9	3	2	2	9	9	9	2	5	6	4	3	3	3	2	1	2	7	3	4	3	1
Biomass	4.0	3.5	3.5	4.0	4.0	3.5	3.5	3.5	3.5	4.0	3.5	3.5	3.0	3.5	3.0	3.5	3.5	3.5	3.0	3.5	4.0	2.5	4.0	3.5	3.5	4.0	3.5	3.5	3.0	3.0

Table 57 cont'd

date	13-Jul			20-Jul			03-Aug			10-Aug			17-Aug			24-Aug			07-Sep			14-Sep			21-Sep			28-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum					1								1		1	1		1		1	1	1	1		1	1	1	1	1	1
Dinobryon balticum															1															
Ebria tripartita				1							1		1	1		1	1					1		1			1			
Euglenoid																1														
Phaeocystis pouchetii																														
unid. Nanoflagellates	6	4	3	5	3	2	5	3	2	3	4	4	2	3	4	4	4	3	5	5	4	4	4	5	4	3	4	2	6	2
Zooplankton																														
Amoeba																														
Appendicularian																														
Ciliate	4	3	2	2	4	1	4	5	4	8	7	3	3	2	2	1	5	2	5	7	2	6	6	4	5	5	5	4	5	4
Copepod																														
Nauplius																								1						
Pluteus																														
Radiolarian																						1		1						
Rotifer	1															1														
Tintinnid	2						2	2			1		1	1		1	1	1		1										
Zoea																														
other												1						1					1	1						
Dominant Species/Group																														
name	*Leptocylindrus danicus*	*Leptocylindrus danicus*	*Leptocylindrus danicus*	*Leptocylindrus danicus*	*Leptocylindrus danicus*	*Leptocylindrus danicus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Rhizosolenia fragilissima*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Rhizosolenia stolterfothii*	*Rhizosolenia stolterfothii*	*Skeletonema costatum*
count (cells/mL)	13000	3500	~180	7600	8600	~200	3100	1600	~340	10000	9000	~400	4500	10000	~800	3,100	4,300	1,300	11000	12600	1650	15000	4000	~1000	~100	~150	~80	~210	~80	~230
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	101	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	60	54	50	65	60	55	45	35	35	65	65	65	60	66	70	38	55	70	75	65	70	60	60	55	50	45	40	85	70	80
Dinoflagellates	30	40	40	32	36	40	50	60	57	20	25	29	30	30	20	50	30	23	10	20	20	25	25	25	30	35	30	10	25	15
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	10	5	2	0	0	0	5	0	0	0	0	0
Other Flagellates	3	2	3	2	2	2	1	1	3	1	1	1	3	1	5	9	3	2	1	2	3	5	5	2	3	5	10	2	2	2
Zooplankton	7	4	7	1	2	3	4	4	5	14	9	5	7	3	5	2	12	5	4	8	5	10	10	18	12	15	20	3	3	3
Biomass	4.0	3.5	2.0	4.5	4.5	2.5	4.0	3.5	2.5	4.0	4.0	3.0	4.0	4.5	2.5	4.0	4.0	3.5	4.0	4.0	2.0	4.0	3.5	3.0	3.5	3.0	2.5	3.5	3.5	2.5

Table 57 cont'd

date	05-Oct			12-Oct		
depth	1m	5m	10m	1m	5m	10m
Other Flagellates						
Cryptomonads						
Dictyocha speculum				1		1
Dinobryon balticum						
Ebria tripartita						
Euglenoid						
Phaeocystis pouchetii						
unid. Nanoflagellates	4	2	2	2	4	3
Zooplankton						
Amoeba						
Appendicularian						
Ciliate	5	3	1	3	5	3
Copepod						
Nauplius			1			
Pluteus						
Radiolarian						
Rotifer						
Tintinnid						
Zoea						
other						
Dominant Species/Group						
name	*Skeletonema costatum*	*Eucampia zoodiacus*	*Skeletonema costatum*	*Eucampia zoodiacus*	*Ditylum brightwellii*	*Ditylum brightwellii*
count (cells/mL)	~970	~60	~200	~100	~30	~30
% constituent	100	100	100	100	100	100
Diatoms	70	80	90	85	85	85
Dinoflagellates	25	15	7	10	10	12
Raphidophytes	0	0	0	0	0	0
Other Flagellates	1	1	1	1	1	1
Zooplankton	4	4	2	4	4	2
Biomass	3.0	3.0	2.0	3.5	4.0	3.5

Table 58 : Diatoms in Pretty Girl Cove samples.

date	04-Apr			11-Apr			18-Apr			25-Apr			02-May			08-May			16-May			22-May			30-May			05-Jun		
depth	1m	5m	10m	Y	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis									1																					
Asterionella japonica					1				1											1						1				
Bacteriastrum sp.							1																							
Biddulphia sp.																														
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus				1	1			1	1			1																		
Chaetoceros sp.				3	2	2	5	10	8	1	2	3		1											1	3				
Corethron hystrix				1			1				1	1		1	1												1			
Coscinodiscus sp.		1	1		1		1	1	1																					
Cylindrotheca closterium							1	1	1			1									1									
Dactylisolen sp.																														
Detonula pumila			1					1	1																					
Ditylum brightwellii							1				1				1															
Eucampia zoodiacus									1		1																			
Grammatophora sp.															1															
Hemiaulus sp.																														
Lauderia annulata																														
Leptocylindrus danicus					1			1	1		1	1					1		1	1										
Leptocylindrus minimus																														
Licmophora sp.																														
Melosira sp.															1															
Navicula sp.					1		2		1																					
Nitzschioid sp.	1			1	1		1	1	1	1	1	1				1		1		1	1		1			1	1			1
Pleurosigma/ Gyrosigma sp.			1					1							1															
Rhizosolenia setigera																														
Rhizosolenia sp. (pointy)		1	1	1	1		1	1	1			1				1														
Rhizosolenia sp. (blunt)					1				1		1																1			
Rhizosolenia stolterfothii	1							1	1			1																		
Skeletonema costatum	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Stephanopyxis sp.									1											1										
Thalassionema sp.				1			1	1	1	1	1	1		1							1	1								
Thalassiosira sp.	1	2	1	1	2	2	1	3	2	1	2	2		1	1	1	1	1			2	1	1	1		2	1			1

Table 58 cont'd

date	12-Jun			20-Jun			10-Jul			25-Jul			09-Aug			22-Aug			28-Aug			06-Sep			13-Sep			18-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																														
Asterionella japonica					1																									
Bacteriastrum sp.				1			1	1	1																					
Biddulphia sp.																														
Cerautalina sp.																1	1													
Chaetoceros concavicorne																														
Chaetoceros convolutus																														
Chaetoceros sp.	1			2	3	2	1	2	3	2	1	1		1	1	5		1												
Corethron hystrix																														
Coscinodiscus sp.						1																								
Cylindrotheca closterium						1								1	1	1														1
Dactylisolen sp.							1	1			1	1																		
Detonula pumila																														
Ditylum brightwellii						1			1					1		1	1	1												
Eucampia zoodiacus														1	1	1	1	1												
Grammatophora sp.																														
Hemiaulus sp.																														
Lauderia annulata																														
Leptocylindrus danicus				1	1	1	1	1	1	1	1	1	1	1	1	1			1		1							1		
Leptocylindrus minimus																1									1	1	1	1	1	1
Licmophora sp.																														
Melosira sp.																												1		1
Navicula sp.														1																
Nitzschioid sp.				1		1																1	1	1						
Pleurosigma/ Gyrosigma sp.																														
Rhizosolenia setigera				1					1				1																	
Rhizosolenia sp. (pointy)						1																								
Rhizosolenia sp. (blunt)					1	1					1			1	1	1														
Rhizosolenia stolterfothii														1		1													1	
Skeletonema costatum	1		1	1	1	1	1	1														1				1				
Stephanopyxis sp.																														
Thalassionema sp.				1						1	1							1												
Thalassiosira sp.	1	1	1		2	1						1		1	1	1				1		1				1		1	1	2

Table 58 cont'd

date	27-Sep			03-Oct			07-Oct			14-Oct			24-Oct			09-Nov			24-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																					
Achnanthes sp.																					
Amphiproral Tropidoneis																					
Asterionella japonica																					
Bacteriastrum sp.																					
Biddulphia sp.																					
Cerautalina sp.																					
Chaetoceros concavicorne																					
Chaetoceros convolutus																					
Chaetoceros sp.																					
Corethron hystrix																					
Coscinodiscus sp.																					
Cylindrotheca closterium	1																1				
Dactylisolen sp.																					
Detonula pumila																					
Ditylum brightwellii											1										
Eucampia zoodiacus																					
Grammatophora sp.																					
Hemiaulus sp.																					
Lauderia annulata																					
Leptocylindrus danicus	1			1																	
Leptocylindrus minimus	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Licmophora sp.																					
Melosira sp.																					
Navicula sp.																					
Nitzschioid sp.	1			1																	
Pleurosigma/ Gyrosigma sp.																					
Rhizosolenia setigera																					
Rhizosolenia sp. (pointy)																					
Rhizosolenia sp. (blunt)	1									1	1										
Rhizosolenia stolterfothii																			1		
Skeletonema costatum											1		1			1	1		1		
Stephanopyxis sp.	1																				
Thalassionema sp.																					
Thalassiosira sp.		1											1					1	1		

Table 59 : Dinoflagellates in Pretty Girl Cove samples.

date	04-Apr			11-Apr			18-Apr			25-Apr			02-May			08-May			16-May			22-May			30-May			05-Jun		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.								1												1						1				
Ceratium divericatum																														
Ceratium furca															1	1														
Ceratium fusus																1														
Ceratium lineatum							1																							
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.																1						1								
Dinophysioid sp.																														
Diplopsalis sp.																														
Gonyaulacoid sp.							1							1	1															
Gymnodinioid sp.	4	4	2	6	7	3	7	5	3	2	5	3	1	3	2	4	2	1	5	4	4	3	2	3	6	5	4	5	3	2
Gymnodinium galatheanum																														
Gyrodinium spirale-type		1		1			2	2	1		1	1				1			2	2	1		1		1	1		2		
Heterocapsa triquetra				1	1					1			1						1			1			1	1	1			
Noctiluca scintillans							1																							
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides																														
Polykrikos sp.																									1					
Prorocentrum gracile															1	1				1										
Prorocentrum micans																														
Prorocentrum sp.																														
Protoperidinioid sp.	1			1		1	3	3			2	1		1		2		1	2		1		1		2	1	1			1
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 59 cont'd

date	12-Jun			20-Jun			10-Jul			25-Jul			09-Aug			22-Aug			28-Aug			06-Sep			13-Sep			18-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																			1											
Amphidinium sp.																														
Ceratium divericatum																			1										1	
Ceratium furca					1									1				1	1										1	1
Ceratium fusus																	1	1		1		1						1		
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																	1		1						1		1		1	
Cochlodinium polykrikoides																														
Cochlodinium sp.																														
Dinophysioid sp.					1				1		2			1			1		1			2				1	2	1	2	1
Diplopsalis sp.													1			1						1			1				1	
Gonyaulacoid sp.																		1	1	1	1	1		1	1					
Gymnodinioid sp.	1	1	2		3	1	2	2	2	3	4	4	4	3	2	4	4	3	6	7	4	2	1	1	6	3	1	5	6	5
Gymnodinium galatheanum																					1			1						1
Gyrodinium spirale-type					1			1			1			1		1	1							1	1		1			
Heterocapsa triquetra	1	1	1	1	1		1	1	1	1	1	1		1	1	1	1	1				1		1	1					
Noctiluca scintillans																	1			1	1		1	1	1					
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides									1								1		1	1		1		1	1	1			1	1
Polykrikos sp.													1			1	1													
Prorocentrum gracile				1	1	1	1	1	1	1	1	1	1	1				1				1			1	1	1	1	1	1
Prorocentrum micans									1																					
Prorocentrum sp.																														
Protoperidinioid sp.		1		1	2			1		3	2	1		3	1	6	2	2	6	4	5	1	2	1	4	2		1	3	1
Pyrocystis lunula																														
Raphidophytes																									1	1	1	1	1	
Heterosigma akashiwo					1		1	1	1		1			1	1	1														

Table 59 cont'd

date	27-Sep			03-Oct			07-Oct			14-Oct			24-Oct			09-Nov			24-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																					
Alexandrium sp.																					
Amphidinium sp.		1																			
Ceratium divaricatum																					
Ceratium furca	1			1										1		1					
Ceratium fusus				1							1						1				
Ceratium lineatum				1									1					1			
Ceratium pentagonum																					
Ceratium sp.																					
Cochlodinium polykrikoides	1	1	1	1	1		1		1	1	1	1	1								
Cochlodinium sp.																					
Dinophysioid sp.	3	1	1	1												1		1			
Diplopsalis sp.							1				1										
Gonyaulacoid sp.	1	1	1													1					
Gymnodinioid sp.	6	4	2	4	4	2	5	3	2	5	5	2	6	1	2	5	3	3	3	3	2
Gymnodinium galatheanum																					
Gyrodinium spirale-type	2	1	1	1			2		1	1	1	1	2			2		2			
Heterocapsa triquetra	1	1	1				1				1										
Noctiluca scintillans																					
Noctilucoid sp.																					
Oxyrrhis marina																					
Oxyphysis oxytoxoides	1		1	1		1				1	1	1	1	1							
Polykrikos sp.																					
Prorocentrum gracile	1	1	1	1	1	1	1	1	1	1	1	1				1					
Prorocentrum micans	1									1											
Prorocentrum sp.																					
Protoperidinioid sp.	3	1		1			2		1	1	2	1						1			
Pyrocystis lunula																					
Raphidophytes																					
Heterosigma akashiwo	1				1		1														

Table 60 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Pretty Girl Cove samples.

date	04-Apr			11-Apr			18-Apr			25-Apr			02-May			08-May			16-May			22-May			30-May			05-Jun		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum	1	1		1	1				1			1	1	1	1		1			1	1	1	1	1		1			1	
Dinobryon balticum																			1											
Ebria tripartita							1						1			1														
Euglenoid	1	1			1												1													
Phaeocystis pouchetii								1																						
Radiolarian																														
unid. Nanoflagellates	6	4	3	3	5	4	6	5	4	5	4	3	4	3	3	3	2	3	4	4	4	3	4	4	4	3	3	2	3	2
Zooplankton																														
Amoeba																														
Appendicularian																														
Ciliate	5	4	5	4	6	3	6	5	4	5	4	2	3	2	2	4	2	2	9	6	6	3	1	2	4	1	1	4	1	2
Copepod																												1		
Nauplius																1			1											
Pluteus																														
Rotifer																														
Tintinnid									1	1	1		1			1					1	2			1					
Zoea																														
other																														
Dominant Species/Group																														
name	ciliates	*Rhizosolenia alata*	*Rhizosolenia alata*	*Skeletonema costatum*	*Rhizosolenia alata*	*Thalassiosira spp.*	*Mesodinium rubrum*	*Skeletonema costatum*	*Thalassiosira spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Melosira moniliformis*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Gymnodinium spp.*	*Gymnodinium spp.*	*Gymnodinium spp.*
count (cells/mL)	~110	~20	~10	~180	~50	~100	1000	4200	~240	2800	2900	1500	1500	~100	~30	5000	~90	~250	6000	~900	2400	2300	~200	~50	8000	5700	~700	~40	~10	~10
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	15	35	65	50	55	78	20	88	92	55	60	65	60	54	55	60	50	70	60	60	80	74	80	50	50	76	70	5	0	30
Dinoflagellates	35	30	5	40	35	15	15	6	4	8	30	25	20	40	35	34	10	10	15	18	10	20	15	35	40	20	20	50	50	40
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	5	5	5	2	3	2	5	2	1	2	1	2	6	2	5	2	10	10	15	2	2	2	3	5	2	2	5	5	20	10
Zooplankton	45	30	25	8	7	5	60	4	3	35	9	8	14	4	5	4	30	10	10	20	8	4	2	10	8	2	5	40	30	20
Biomass	3.0	2.5	2.5	3.5	3.0	3.5	4.0	3.5	3.5	3.5	3.5	3.0	3.5	2.5	2.5	4.0	2.5	2.5	4.0	3.0	3.5	3.5	2.5	1.5	4.0	3.5	2.0	2.5	1.0	1.5

Table 60 cont'd

date	12-Jun			20-Jun			10-Jul			25-Jul			09-Aug			22-Aug			28-Aug			06-Sep			13-Sep			18-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum	1	1	1																1		1								1	
Dinobryon balticum																														
Ebria tripartita										1	1	1							1	1						1		1		
Euglenoid		1		1						1																				
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	2	3	2	3	3	2	4	3	2	2	2	2	3	2	3	5	3	3	4	3	3	5	3	3	4	3	2	4	4	3
Zooplankton																														
Amoeba																														
Appendicularian																														1
Ciliate	3	3	1	3	3		2	1	2	2	1	2	2	3	2	4	5	5	5	5	3	4		3	6	1	1	2	5	2
Copepod																														
Nauplius										1		1	1															1	1	
Pluteus																														
Rotifer																1			1										1	
Tintinnid				1	1											1	1	1	1	1		2			1				1	1
Zoea																														
other																	1		1											
Dominant Species/Group																														
name	*Skeletonema costatum*	*Heterocapsa triquetra*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Leptocylindrus danicus*	*Ditylum brightwellii*	gymnodinioid dinoflagellates	*Eucampia zoodiacus*	gymnodinioid dinoflagellates	*Gonyaulax digitale*	*Gonyaulax digitale*	ciliates	protoperidinioid dinoflagellat	ciliates	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Prorocentrum gracile*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*
count (cells/mL)	~70	~10	~40	~480	~300	~200	~180	~90	~40	~410	~110	~150	~20	~40	~80	~20	~130	~380	~60	~60	~25	~120	~3	~15	25,000	~320	~20	1,900	18,000	4,000
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	40	25	50	60	58	90	15	37	35	35	40	30	10	30	50	60	5	30	5	2	5	8	20	6	44	45	30	42	40	45
Dinoflagellates	25	30	37	30	30	8	50	30	30	57	52	63	60	56	44	30	63	49	50	68	75	50	65	50	50	50	65	44	30	45
Raphidophytes	0	0	0	0	0	0	30	30	30	0	1	0	0	6	1	0	0	0	0	0	0	0	0	0	2	0	1	10	3	0
Other Flagellates	5	5	3	5	2	2	2	2	2	3	4	2	10	3	2	5	2	1	10	5	4	2	15	4	1	3	2	2	4	2
Zooplankton	30	40	10	5	10	0	3	1	3	5	3	5	20	5	3	5	30	20	35	25	16	40	0	40	3	2	2	2	23	8
Biomass	2.0	2.0	1.5	2.5	3.0	2.5	3.0	2.5	2.5	3.0	2.5	2.5	2.5	3.0	3.0	3.5	3.0	3.0	2.5	2.5	2.0	3.5	1.0	1.0	4.5	2.0	2.0	4.5	4.5	4.0

Table 60 cont'd

date	27-Sep			03-Oct			07-Oct			14-Oct			24-Oct			09-Nov			24-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Cryptomonads																					
Dictyocha speculum																					
Dinobryon balticum				1		1		1			1			1					1		
Ebria tripartita																					
Euglenoid																					
Phaeocystis pouchetii	1																				
Radiolarian																					
unid. Nanoflagellates																					
	5	2	3	3	2	3	4	2	3	4	3	3	2	3	2	2	2	1	3	4	2
Zooplankton																					
Amoeba																					
Appendicularian																					
Bipinnaria																					
Copepod	3	2	4	3			4			5	4	2	6	2		4	3	2			
Fungus																					
Pluteus																			1		
Rotifer																					
Tintinnid																					
Zoea							1						1								
other																					
	1		1																		
Dominant Species/Group																					
name																					
count (cells/mL)	*Prorocentrum gracile*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Cochlodinium polykrikoides*	*Prorocentrum gracile*	*Cochlodinium polykrikoides*	*Cochlodinium polykrikoides*	*Cochlodinium polykrikoides*	*Cochlodinium polykrikoides*	*Leptocylindrus minimus*	ciliates	*Leptocylindrus minimus*	*Ceratium furca*	*Ceratium fusus*	dinoflagellates	*Rhizosolenia stolterfothii*	gymnodinioid dinoflagellates	gymnodinioid dinoflagellates
% constituent	1260	~30	~10	17500	~100	~80	1200	~20	~22	3900	~650	~50	15000	~5	~100	~8	~2	~15	~3	~10	~5
Diatoms	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dinoflagellates	15	5	5	50	59	35	10	25	5	6	10	17	89	10	45	5	4	4	70	0	0
Raphidophytes	75	92	85	45	30	55	85	65	90	90	85	80	5	35	45	80	65	85	10	80	75
Other Flagellates	6	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zooplankton	1	1	1	3	10	10	1	10	5	1	1	1	1	15	10	1	1	1	15	20	25
Biomass	3	2	9	2	0	0	3	0	0	3	4	2	5	40	0	14	30	10	5	0	0
	4.0	2.5	2.0	4.0	1.5	1.0	4.5	2.0	2.0	4.5	3.5	2.0	4.5	1.0	1.0	3.0	1.5	1.0	1.5	1.0	1.0

Table 61 : Diatoms in Bacchante Bay samples.

date	04-Apr			11-Apr			18-Apr			25-Apr			02-May			08-May			16-May			22-May			30-May			05-Jun		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																														
Asterionella japonica									1	1															1	1		1		1
Bacteriastrum sp.																														
Biddulphia sp.																														
Cerautalina sp.		1																												
Chaetoceros concavicorne																														
Chaetoceros convolutus						1	1		1										1											
Chaetoceros sp.			2	2	3	2	4	6	3	3	3	1	2			2	1		1		1		2		1	2	1	2	2	2
Corethron hystrix		1	1	1	1	1		1	1		1	1																		
Coscinodiscus sp.								1	1																					
Cylindrotheca closterium				1	1		1																				1			
Dactyliosolen sp.																														
Detonula pumila								1	1																					
Ditylum brightwellii			1		1	1	1		1		1				1												1			
Eucampia zoodiacus				1																										
Grammatophora sp.			1						1																					
Hemiaulus sp.																														
Lauderia annulata																														
Leptocylindrus danicus								1	1	1			1						1											1
Leptocylindrus minimus																														
Licmophora sp.																														
Melosira sp.															1															
Navicula sp.																														
Nitzschioid sp.			1		1		1	1	2	1	1	1	1						1	1			1		1	1	1	1	1	1
Pleurosigma/ Gyrosigma sp.						1			1		1																			
Rhizosolenia setigera																														1
Rhizosolenia sp. (pointy)					1				1																					
Rhizosolenia sp. (blunt)				1																										
Rhizosolenia stolterfothii								1																					1	
Skeletonema costatum	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Stephanopyxis sp.																														
Thalassionema sp.			1	1	1	1	1	1	1	1	1	1	1	1	1				1						1					1
Thalassiosira sp.	1	1	2	1	2	2	2	2	2	1	2	2	1	1	1		1	1	1		1				1	2	1		1	2

Table 61 cont'd

date	12-Jun			20-Jun			10-Jul			19-Jul			25-Jul			02-Aug			09-Aug			16-Aug			22-Aug			28-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																														
Asterionella japonica	1																													
Bacteriastrum sp.																														
Biddulphia sp.										1																				
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus		1				1																								
Chaetoceros sp.	5	3	3	1	1	2					1		1			1	1	1	1	1	2			1	1				1	
Corethron hystrix																														
Coscinodiscus sp.															1							1				1				
Cylindrotheca closterium			1								1		1					1			1						1			
Dactylisolen sp.						1														1										
Detonula pumila																1	1	1												
Ditylum brightwellii					1	1				1	1		1		1				1	1	1	1	1					1		
Eucampia zoodiacus						1														1	1									
Grammatophora sp.																														
Hemiaulus sp.																														
Lauderia annulata																														
Leptocylindrus danicus	1			1	1	1				1	1		1	1	1					1	1									
Leptocylindrus minimus																									1	1	1	1	1	1
Licmophora sp.																														
Melosira sp.																1														
Navicula sp.															1						1									
Nitzschioid sp.	1	1		1							1	1										1						1		
Pleurosigma/ Gyrosigma sp.																				1	1									
Rhizosolenia setigera	1	1		1	1	1														1	1						1			
Rhizosolenia sp. (pointy)						1																								
Rhizosolenia sp. (blunt)											1		1	1			1	1	1	1	1					1				
Rhizosolenia stolterfothii		1																												
Skeletonema costatum	1			1	1	1					1	1					1	1												
Stephanopyxis sp.																														
Thalassionema sp.					1						1									1										
Thalassiosira sp.	1	1	1	1	1	1	1				1						1	1	1	1	2			1					1	

Table 61 cont'd

date	06-Sep			13-Sep			18-Sep			27-Sep			03-Oct			07-Oct			14-Oct			24-Oct			09-Nov			24-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																														
Asterionella japonica										1																				
Bacteriastrum sp.																														
Biddulphia sp.		1																												
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus																														
Chaetoceros sp.							1	1			1	1	1	4					1											
Corethron hystrix																														
Coscinodiscus sp.		1																												
Cylindrotheca closterium																														
Dactyliosolen sp.																			1											
Detonula pumila																														
Ditylum brightwellii										1	1		1	1	1				1											
Eucampia zoodiacus																														
Grammatophora sp.																														
Hemiaulus sp.																														
Lauderia annulata																														
Leptocylindrus danicus											1	1	1	1																
Leptocylindrus minimus	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
Licmophora sp.																														
Melosira sp.																														
Navicula sp.																														
Nitzschioid sp.	1										1		1	1																
Pleurosigma/ Gyrosigma sp.																			1											
Rhizosolenia setigera														1																
Rhizosolenia sp. (pointy)																														
Rhizosolenia sp. (blunt)										1	1	1	1	1	1				1		1									
Rhizosolenia stolterfothii													1	1																
Skeletonema costatum	1									1	1	1	1	1	1	1	1	1	1	1	1									
Stephanopyxis sp.																														
Thalassionema sp.											1			1					1											
Thalassiosira sp.			1				1			1	1	1	1	1	1	1	1		1	1	1									

Table 62 : Dinoflagellates in Bacchante Bay samples.

date	04-Apr			11-Apr			18-Apr			25-Apr			02-May			08-May			16-May			22-May			30-May			05-Jun		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.										1																				1
Amphidinium sp.																														
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.																														1
Dinophysioid sp.										1	1																			
Diplopsalis sp.																				1										
Gonyaulacoid sp.							1																							
Gymnodinioid sp.	3	2	3	5	4	3	4	3	3	6	5	4	5	3	3	3	3	1	5	3	2	2	2	1	4	2	2	3	4	3
Gymnodinium galatheanum																			3	2	2	1	1	1	1				1	
Gyrodinium spirale-type	1	1		1			2	1		2																				
Heterocapsa triquetra							1						1						1			1	1	1	1	1	1	1	1	1
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																												1		
Oxyphysis oxytoxoides																														
Polykrikos sp.																														
Prorocentrum gracile																													1	
Prorocentrum micans																														
Prorocentrum sp.																														
Protoperidinioid sp.			1	2			5			3	1								3	1		1	2	1	1			1	2	1
Pyrocystis lunula																														
Raphidophytes																												1		
Heterosigma akashiwo																														

Table 62 cont'd

date	12-Jun			20-Jun			10-Jul			19-Jul			25-Jul			02-Aug			09-Aug			16-Aug			22-Aug			28-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.	1	1																												
Amphidinium sp.		1																		1										
Ceratium divericatum																														
Ceratium furca																									1					
Ceratium fusus															1											1				
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.							1																							
Cochlodinium polykrikoides											1			1	1				1	1	1	1			1	1	1		1	
Cochlodinium sp.														1												1	1			1
Dinophysioid sp.							1						1			1	1		1			1			1	1				
Diplopsalis sp.							1									1					1									
Gonyaulacoid sp.					1											1											1			
Gymnodinioid sp.	4	4		1	2	1	6	3	3	4	4	3	3	2		2	3	2	6	6	6	3	2	2	5	7	4	2	7	6
Gymnodinium galatheanum																														
Gyrodinium spirale-type					2		2			1		1	1	1	1	1	1		2			1				1	1			
Heterocapsa triquetra	1	1	1	1	1	1	1	1	1	1	1			1	1	1	1		1			1		1	1	1	1		1	
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxymrhis marina																														
Oxyphysis oxytoxoides						1	1															1			1	1			1	
Polykrikos sp.	1						1	1		1	1	1	1	1	1	1	1		1										1	
Prorocentrum gracile				1	1	1	1	1	1	1	1	1	1	1	1		1		1	1		1			1	1	1	1	1	1
Prorocentrum micans				1																										
Prorocentrum sp.																														
Protoperidinioid sp.	3	2	2	2	4	1		2		1	4	2	2	2	2	1	2		2	2	2	1	1		1	3	2	1		
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo				1	1	1	1	1	1										1						1	1	1	1	1	1

Table 62 cont'd

date	06-Sep			13-Sep			18-Sep			27-Sep			03-Oct			07-Oct			14-Oct			24-Oct			09-Nov			24-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.				1																										
Ceratium divericatum																														
Ceratium furca																						1								
Ceratium fusus									1					1								1								
Ceratium lineatum																						1								
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides	1	1		1	1		1	1		1	1		1																	
Cochlodinium sp.																														
Dinophysioid sp.				2			1	1			1		1	1		1						1		1						
Diplopsalis sp.				1			1	1	1																					
Gonyaulacoid sp.				1																										
Gymnodinioid sp.	5	5	3	5	3	1	6	3	2	3	2	3	7	4	4	1	3	2	6	3	2	4	2							
Gymnodinium galatheanum																														
Gyrodinium spirale-type	2	2		3		1	1					1	3	1					1		1									
Heterocapsa triquetra	1	1		1	1		1			1		1																		
Noctiluca scintillans	1					1	1			1																				
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides	1	1		1	1		1	1		1	1		1																	
Polykrikos sp.				1									1																	
Prorocentrum gracile	1	1	1	1	1	1	1	1	1	1	1	1	1	1			1		1											
Prorocentrum micans					1	1																								
Prorocentrum sp.																														
Protoperidinioid sp.	1		2	3	1		1	1		1			2	2		1						1								
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo		1		1																										

Table 63 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Bacchante Bay samples.

date	04-Apr			11-Apr			18-Apr			25-Apr			02-May			08-May			16-May			22-May			30-May			05-Jun		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum				1	1		1	1		1	1	1	1	1			1					1							1	
Dinobryon balticum							1												1											
Ebria tripartita										1	1																	1		1
Euglenoid	1	1		1	1											1	1													
Phaeocystis pouchetii							1																							
Radiolarian																														
unid. Nanoflagellates	3	4	5	6	3	3	5	5	5	5	5	4	3	4	3	4	4	3	6	4	3	4	4	4	3	4	3	4	3	3
Zooplankton																														
Amoeba																														
Appendicularian																														
Ciliate	5	3	2	5	3	4	6	5	4	6	3	3	2	1	1	2	3	2	7	6	2	1	2	1	2	2	3	2	4	2
Copepod																														
Nauplius							1																							
Pluteus																														
Rotifer																														
Tintinnid										2									1				1						1	
Zoea																														
other																														
Dominant Species/Group																														
name	*Skeletonema costatum*	*Skeletonema costatum*	*Thalassionema sp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Thalassiosira sp.*	*Gymnodinium spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Heterocapsa triquetra*	*Heterocapsa triquetra*	*Skeletonema costatum*
count (cells/mL)	~120	~80	~80	~500	~710	~470	1000	4000	2000	1800	1900	~370	1300	~30	~20	2300	1000	~350	28000	2000	1100	7000	~300	~200	9000	6300	~330	~50	~60	~700
% constituent	100	100	100	100	100	100	100	100	100	100	98	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	40	50	75	50	68	73	40	80	85	55	60	70	70	55	40	75	55	80	85	60	77	77	60	60	60	80	60	30	35	55
Dinoflagellates	25	20	15	40	25	15	25	5	8	35	30	23	20	35	50	10	10	5	7	25	15	20	35	35	35	15	30	40	40	35
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	5	5	2	2	3	2	5	5	3	2	3	2	5	5	5	10	10	5	1	2	3	2	1	2	2	2	3	10	3	5
Zooplankton	30	25	8	8	4	10	30	10	4	8	5	5	5	5	5	5	25	10	7	13	5	1	4	3	3	3	7	20	22	5
Biomass	3.0	2.5	3.0	3.0	3.5	3.0	3.0	3.0	3.5	4.0	3.5	2.5	3.0	2.5	2.0	3.5	3.0	2.0	4.5	3.5	3.0	3.5	2.5	2.0	4.0	3.0	2.0	2.5	2.5	3.0

Table 63 cont'd

date	12-Jun			20-Jun			10-Jul			19-Jul			25-Jul			02-Aug			09-Aug			16-Aug			22-Aug			28-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														1
Dictyocha speculum	1	1	1		1	1																								
Dinobryon balticum												1															1			
Ebria tripartita														1						1					1					
Euglenoid																														
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	2	2	3	4	3	3	3	3	1	2	2	3	3	3	1	3	3	2	6	4	3	3	3	3	3	2	2	3	3	3
Zooplankton																														
Amoeba																														
Appendicularian																														
Ciliate	2	1	1	3	3	4	3	3		3	4	2	3	4	3	2	2	2	6	3	2	5	1		2	4	2	1	4	5
Copepod																														
Nauplius																														
Pluteus																														
Rotifer																														
Tintinnid		1		1	1	1	1	1					2	2	1	2		1	1	2	1	3	1			1			1	2
Zoea																									1					
other																														
Dominant Species/Group																														
name	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Leptocylindrus danicus*	*Heterocapsa triquetra*	*Heterocapsa triquetra*	*Gymnodinium sp.*	*Heterosigma akashiwo*	*Heterosigma akashiwo*	*Prorocentrum gracile*	protoperidinioid dinoflagellat	*Gymnodinium spp.*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Gymnodinium spp.*	*Chaetoceros sp.*	*Ditylum brightwellii*	*Rhizosolenia delicatula*	*Cochlodinium polykrikoides*	*Ditylum brightwellii*	*Ditylum brightwellii*	*Cochlodinium polykrikoides*	gymnodinioid dinoflagellates	gymnodinioid dinoflagellates	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Cochlodinium polykrikoides*	*Prorocentrum gracile*	*Leptocylindrus minimus*	*Leptocylindrus minimus*
count (cells/mL)	~600	~300	~120	~80	~60	~30	~850	~220	~110	~380	~80	~20	~90	~40	~40	~15	~40	~20	~77	~70	~50	1100	~15	~10	46000	6200	~45	~100	12,600	3,000
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	86
Diatoms	47	70	75	35	25	41	2	0	0	10	40	16	20	20	15	30	60	80	15	55	70	4	30	45	45	35	30	30	45	60
Dinoflagellates	30	20	15	30	47	35	93	60	59	83	50	70	70	65	65	55	34	15	55	35	25	88	50	45	50	50	60	40	40	20
Raphidophytes	0	0	0	10	3	4	0	30	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	10	2	19	5	1
Other Flagellates	3	5	8	5	5	5	1	3	1	2	2	4	3	5	6	5	1	2	10	5	2	1	5	10	1	2	3	10	5	2
Zooplankton	20	5	2	20	20	15	4	7	0	5	8	10	7	10	14	10	5	3	20	5	3	7	15	0	1	3	5	1	5	3
Biomass	3.0	2.5	2.0	2.5	2.5	3.0	4.0	3.5	2.5	3.0	2.5	2.0	2.5	2.0	2.0	2.0	3.0	2.5	3.0	3.0	3.0	4.5	1.0	1.0	4.5	4.0	2.5	3.0	4.0	3.5

Table 63 cont'd

date	06-Sep			13-Sep			18-Sep			27-Sep			03-Oct			07-Oct			14-Oct			24-Oct			09-Nov			24-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum							1	1	1	1	1		1	1		1			1	1		1	1							
Dinobryon balticum																														
Ebria tripartita																														
Euglenoid	1					1				1			1	1																
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	3	3	4	5	2	1	4	3	4	4	4	2	3	4	3	4	4	1	3	1	2	4	3	3						
Zooplankton																														
Amoeba																														
Appendicularian																														
Ciliate	6	3	2	4		1	1	2			1	3	3	3		2	2	2	8	4		4	1							
Copepod																														
Nauplius													1																	
Pluteus																														
Rotifer																														
Tintinnid													1						1	1										
Zoea																														
other			1																											
Dominant Species/Group																														
name	*Prorocentrum gracile*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Prorocentrum gracile*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Ceratium lineatum*	gymnodinioid dinoflagellates	dinophysioid dinoflagellate	no sample	no sample	no sample	no sample	no sample	no sample
count (cells/mL)	1700	1200	~300	1160	~110	~100	20000	2000	~10	4000	5200	1200	8000	1350	~120	~360	~50	~140	6400	~480	~60	~6	~5	~1						
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	30	40	60	27	0	8	45	40	10	49	60	65	50	85	90	75	80	90	65	80	80	0	0	0	4	30	62	0	0	17
Dinoflagellates	50	50	30	70	99	90	53	57	85	50	34	30	43	10	9	10	10	5	10	5	19	80	35	50	50	52.5	27.5	60	77.5	57.5
Raphidophytes	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	1	1	2	1	1	1	1	1	5	1	5	1	2	3	1	10	5	1	5	5	1	10	35	50	16	12.5	5.5	25	12.5	20.5
Zooplankton	19	8	8	2	0	1	1	2	0	0	1	4	5	2	0	5	5	4	20	10	0	10	30	0	30	5	5	15	10	5
Biomass	4.5	3.0	2.0	4.5	3.0	3.0	4.5	2.0	1.0	2.5	3.0	2.5	4.0	3.5	2.0	2.0	1.5	1.5	4.0	2.0	1.0	2.5	1.0	1.0	1.0	1.3	1.0	1.3	1.3	1.0

Table 64 : Diatoms in Gibson Cove samples.

date	04-Apr			11-Apr			18-Apr			25-Apr			02-May			08-May			16-May			22-May			30-May			05-Jun		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																														
Asterionella japonica									1			1												1						
Bacteriastrum sp.																													1	
Biddulphia sp.																														
Cerautalina sp.																														
Chaetoceros concavicorne							1																							
Chaetoceros convolutus	1	1	1	1	1		1	1			1	1																		
Chaetoceros sp.	2	2	2	1	2	2	2	2	1	2		1							2			2	2	2	2	1	1	1	1	1
Corethron hystrix		1	1	1	1	1	1	1	1		1	1			1							1		1						
Coscinodiscus sp.																														
Cylindrotheca closterium				1	1	1					1																			
Dactylisolen sp.																														
Detonula pumila																														
Ditylum brightwellii				1	1			1														1		1						
Eucampia zoodiacus					1																									
Grammatophora sp.																														
Hemiaulus sp.																														
Lauderia annulata																														
Leptocylindrus danicus		1				1	1		1			1															1			
Leptocylindrus minimus																														
Licmophora sp.													1																	
Melosira sp.																								1						
Navicula sp.								1									1													
Nitzschioid sp.	1	1	1	1	1	1	1	1		1		1										1	1	2	1	1	1			
Pleurosigma/ Gyrosigma sp.						1																								
Rhizosolenia setigera																														
Rhizosolenia sp. (pointy)																														
Rhizosolenia sp. (blunt)			1																											
Rhizosolenia stolterfothii						1																								
Skeletonema costatum	1	1	1	1	1	1	1	1	1	1	1	1	1						1	1	1	1	1	1	1	1	1	1	1	1
Stephanopyxis sp.																														
Thalassionema sp.	1											1	1	1						1				1						
Thalassiosira sp.	1	2	2		2	2	1	2	2		1	2		1	1			1		1	1	2	1	2	1	1	1			1

Table 64 cont'd

date	12-Jun			20-Jun			04-Jul			10-Jul			19-Jul			25-Jul			02-Aug			09-Aug			16-Aug			22-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																														
Asterionella japonica						1															1									
Bacteriastrum sp.																														
Biddulphia sp.																														
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus						1										1					1									
Chaetoceros sp.			1			3							1				1		1		3			1						
Corethron hystrix																														
Coscinodiscus sp.																														
Cylindrotheca closterium						1	1																							
Dactylisolen sp.							1						1																	
Detonula pumila																														
Ditylum brightwellii			1			1												1			1									
Eucampia zoodiacus						1															1									
Grammatophora sp.																														
Hemiaulus sp.																														
Lauderia annulata																														
Leptocylindrus danicus		1		1		1							1						1	1	1		1							
Leptocylindrus minimus																			1	1	1	1	1	1	1	1	1	1	1	1
Licmophora sp.					1																									
Melosira sp.						1																						1		
Navicula sp.			1			1																								
Nitzschioid sp.	1		1			1			1				1			1	1	1	1	1	1									
Pleurosigma/ Gyrosigma sp.																														
Rhizosolenia setigera	1									1									1	1	1		1							
Rhizosolenia sp. (pointy)																														
Rhizosolenia sp. (blunt)						1																							1	
Rhizosolenia stolterfothii						1	1														1									
Skeletonema costatum	1		1			1														1	1	1								
Stephanopyxis sp.																														
Thalassionema sp.																														
Thalassiosira sp.			2		1	2		1	1		1	1									1	1	1	1					1	1

Table 64 cont'd

date	28-Aug			06-Sep			13-Sep			19-Sep			27-Sep			03-Oct			07-Oct			14-Oct			24-Oct			09-Nov			24-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																																	
Achnanthes sp.																																	
Amphiproral Tropidoneis			1																														
Asterionella japonica																																	
Bacteriastrum sp.																																	
Biddulphia sp.			1																														
Cerautalina sp.																																	
Chaetoceros concavicorne																																	
Chaetoceros convolutus																																	
Chaetoceros sp.								1									1	1															
Corethron hystrix																																	
Coscinodiscus sp.							1										1									1			1				
Cylindrotheca closterium																		1															
Dactylisolen sp.										1	1																						
Detonula pumila																																	
Ditylum brightwellii												1						1															
Eucampia zoodiacus																																	
Grammatophora sp.								1																									
Hemiaulus sp.																																	
Lauderia annulata																																	
Leptocylindrus danicus															1	1																	
Leptocylindrus minimus	1	1	1	1	1	1	1	1		1		1	1	1	1				1														
Licmophora sp.																																	
Melosira sp.																																	
Navicula sp.																																	
Nitzschioid sp.																	1	1		1													
Pleurosigma/ Gyrosigma sp.																																	
Rhizosolenia setigera																																	
Rhizosolenia sp. (pointy)																																	
Rhizosolenia sp. (blunt)		1				1										1			1	1		1	1			1	1						
Rhizosolenia stolterfothii					1																												
Skeletonema costatum								1				1		1	1				1							1							
Stephanopyxis sp.																																	
Thalassionema sp.																															1		
Thalassiosira sp.								1							1		1	1		1	1						1	1		1			

Table 65 : Dinoflagellates in Gibson Cove samples.

date	04-Apr			11-Apr			18-Apr			25-Apr			02-May			08-May			16-May			22-May			30-May			05-Jun		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.									1																					
Ceratium divaricatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.																														
Dinophysioid sp.																		1			1	1		1						
Diplopsalis sp.																														
Gonyaulacoid sp.																	1	1		1										1
Gymnodinioid sp.	4	4	2	8	7	5	5	4	3	5	5	3	3	4	4	4	4	4	4	6	6	4	2	3	3	3	3	4	5	7
Gymnodinium galatheanum																														
Gyrodinium spirale-type	2	2	1	1	2	2	2	1		1	1					1			1	1										
Heterocapsa triquetra													1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans														1		1				1	1			1						
Prorocentrum sp.																								1						
Protoperidinioid sp.	1	1		1	2		1	1			1				1	1	1		1					2	1	2	2	3	3	1
Pyrocystis lunula																								1						
Raphidophytes																														
Heterosigma akashiwo																														

Table 65 cont'd

date	12-Jun			20-Jun			04-Jul			10-Jul			19-Jul			25-Jul			02-Aug			09-Aug			16-Aug			22-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflageliates																														
Alexandrium sp.		1												1																
Amphidinium sp.																														
Ceratium divaricatum																														
Ceratium furca																														
Ceratium fusus																				1						1			1	
Ceratium lineatum															1			1		1			1			1	1	1	1	1
Ceratium pentagonum																												1		
Ceratium sp.																														
Cochlodinium polykrikoides																		1				1	1	1					1	1
Cochlodinium sp.																														
Dinophysioid sp.			1						1						1				1			1	1			1		1	2	
Diplopsalis sp.																												1	1	
Gonyaulacoid sp.					1	1	1													1			1		1	1	1		1	1
Gymnodinioid sp.	2	4	2		1	3	5	5	3	4	6	6	2	7	1	2	4	4	3	6	5	4	8	6	4	4	2	3	7	4
Gymnodinium galatheanum																														
Gyrodinium spirale-type						1		2	1					1	5					1		1	2	2		1			1	1
Heterocapsa triquetra	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1		
Noctiluca scintillans																							1							
Noctilucoid sp.																						1	1							
Oxyrrhis marina																														
Oxyphysis oxytoxoides																			1										1	1
Polykrikos sp.								1		1			1				1	1		1										
Prorocentrum gracile				1		1	1	1		1		1	1	1	1	1	1	1	1	1	1	1	1					1	1	
Prorocentrum micans																												1		
Prorocentrum sp.																														
Protoperidinioid sp.	1	2	1		3	1		1	1	1	1	1	1	1	3		1	2	3	5	3	1	3		3	3	1	3	2	1
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo					1		1	1	1		1	1			1								1		1	1		1	1	1

Table 65 cont'd

date	28-Aug			06-Sep			13-Sep			19-Sep			27-Sep			03-Oct			07-Oct			14-Oct			24-Oct			09-Nov			24-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																																	
Alexandrium sp.																			1														
Amphidinium sp.		1			1	1							1																				
Ceratium divaricatum																									1								
Ceratium furca			1	1	1											1			1	1		1	1	1	1	1	1						
Ceratium fusus		1	1		1			1			1	1	1	1		1	1		1	1			1	1			1						
Ceratium lineatum		1	1		1	1			1		1	1	1	1		1	1	1	1	1	1	1	1	1				1					
Ceratium pentagonum																																	
Ceratium sp.																																	
Cochlodinium polykrikoides	1	1	1	1						1	1					1																	
Cochlodinium sp.																																	
Dinophysioid sp.	1	2	1	1				1	1	1			1			1				1				1						1		
Diplopsalis sp.		1		1																													
Gonyaulacoid sp.		1	1			1		1													1							1		1			
Gymnodinioid sp.	6	6	4	5	3	3	5	4	3	3	5	4	5	4	3	7	6	4	7	10	8	7	5	5	2	1	2	3	3		3	4	4
Gymnodinium galatheanum																																	
Gyrodinium spirale-type		1	1	2	1	1	1	1		1	2	1	2	2	1	2			3	2	1									1			
Heterocapsa triquetra	1	1		1	1	1		1		1							1																
Noctiluca scintillans		1											1																				
Noctilucoid sp.																																	
Oxyrrhis marina																																	
Oxyphysis oxytoxoides	1	1		1			1												1														
Polykrikos sp.																																	
Prorocentrum gracile	1	1	1	1	1	1	1	1		1	1	1	1	1	1																		
Prorocentrum micans							1			1			1						1		1	1	1										
Prorocentrum sp.																																	
Protoperidinioid sp.		2	1		2	2	2		1		1	1	1				1	1	4	2	2											1	
Pyrocystis lunula																																	
Raphidophytes																																	
Heterosigma akashiwo		1		1	1	1	1	1		1	1	1		1	1	1	1	1	1	1	1												

Table 66 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Gibson Cove samples.

date	04-Apr			11-Apr			18-Apr			25-Apr			02-May			08-May			16-May			22-May			30-May			05-Jun		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads								1										1		1	1	1					1			1
Dictyocha speculum																				1										
Dinobryon balticum				1															1						1	1		1	1	1
Ebria tripartita	1				1		1						1																	
Euglenoid																														
Phaeocystis pouchetii																														
Radiolariari																														
unid. Nanoflagellates	3	5	3	4	5	3	3	5	4	5	3	5	4	3	3	3	3	3	4	4	3	4	3	4	3	4	3	3	3	3
Zooplankton																														
Amoeba																														
Appendicularian																														
Ciliate	6	3	2	5	4	2	5	5	2	4	2	3	4	3	2	4	2	3	4	4	3	3	1	3	3	3	4	1	2	3
Copepod															1														1	
Nauplius				1																										
Pluteus																														
Rotifer														2	2		2	2		2	2	2		3		1	2	1	1	2
Tintinnid		1			1	1	1			3	3								1											
Zoea																														
other																														
Dominant Species/Group																														
name	*Skeletonema costatum*	*Skeletonema costatum*	*Corethron hystrix*	*Skeletonema costatum*	*Gymnodinium spp.*	*Skeletonema costatum*	*Corethron hystrix*	*Corethron hystrix*	*Corethron hystrix*	*Gymnodinium spp.*	*Corethron hystrix*	*Corethron hystrix*	*Heterocapsa triquetra*	ciliates	*Gymnodinium spp.*	*Gymnodinium spp.*	ciliates	*Gymnodinium spp.*	*Heterocapsa triquetra*	*Heterocapsa triquetra*	*Heterocapsa triquetra*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Heterocapsa triquetra*	*Heterocapsa triquetra*	*Heterocapsa triquetra*
count (cells/mL)	25000	~850	~80	~150	~70	~120	~30	~57	~6	~40	~24	~50	~60	~70	~30	~40	~70	~40	~30	~50	~25	2400	~250	26000	1700	~300	~150	~120	~30	~10
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	101	100	100	100	100	100	100	100	100
Diatoms	60	60	80	48	60	65	75	80	75	35	55	70	10	10	25	0	3	3	42	20	10	57	58	75	58	50	45	35	30	25
Dinoflagellates	30	35	15	42	35	30	20	15	15	50	35	20	55	35	50	60	42	55	50	65	80	40	40	20	35	35	35	50	40	40
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	1	1	2	2	2	1	1	2	5	2	2	2	5	5	3	5	5	5	3	5	3	1	1	1	3	5	5	7	10	10
Zooplankton	9	4	3	8	3	4	4	3	5	13	8	8	30	50	22	35	50	37	5	10	7	3	1	4	4	10	15	8	20	25
Biomass	4.5	4.0	3.5	3.0	2.5	2.5	3.0	3.5	2.0	2.5	2.5	3.0	2.5	2.5	2.0	2.0	2.5	2.5	3.0	3.0	2.5	3.5	2.5	4.5	3.0	2.5	2.0	3.0	2.5	2.0

Table 66 cont'd

date	12-Jun			20-Jun			04-Jul			10-Jul			19-Jul			25-Jul			02-Aug			09-Aug			16-Aug			22-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum			1																				1	1			1			1
Dinobryon balticum																												1		
Ebria tripartita		1																										1		
Euglenoid	1	1		1	1		1			1								1												
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	2	3	2	3	3	3	2	4	1	3	2	2	1	2	3	3	4	3	1	2	2	4	4	5	2	2	2	4	4	3
Zooplankton																														
Amoeba																														
Appendicularian							1																							
Ciliate	2	4	2	2	2	4	1	3	2	3	3	3	2	4	4	1	5	5	4	4	2	3	5	1			1	4	2	3
Copepod																	1									1				
Nauplius																														
Pluteus																		1												
Rotifer																														
Tintinnid		1	1			1				1			1			1	1			1	1		1	2						
Zoea																								1						
other																														
Dominant Species/Group																														
name	*Heterocapsa triquetra*	*Heterocapsa triquetra*	*Thalassiosira spp.*	*Heterocapsa triquetra*	*Heterocapsa triquetra*	*Thalassiosira spp.*	*Heterosigma akashiwo*	*Heterosigma akashiwo*	*Thalassiosira sp.*	*Heterocapsa triquetra*	*Heterosigma akashiwo*	*Heterosigma akashiwo*	*Prorocentrum gracile*	gymnodinioid dinoflagellates	gymnodinioid dinoflagellates	*Prorocentrum gracile*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Leptocylindrus minimus*	*Prorocentrum gracile*	*Skeletonema costatum*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Ceratium lineatum*	*Prorocentrum gracile*	*Leptocylindrus minimus*	*Leptocylindrus minimus*
count (cells/mL)	~20	~15	~30	~250	~100	1000	~10	~310	~260	~30	~910	~410	~40	~150	~220	~125	~30	~70	6600	~120	~400	1100	1700	~750	~90	~150	~25	3,800	6,000	2,700
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	101
Diatoms	30	20	50	15	5	70	20	1	45	5	0	10	20	0	0	3	10	15	60	15	65	70	36	45	32	20	20	15	48	50
Dinoflagellates	45	40	35	70	75	20	20	49	25	50	25	35	65	75	67	87	60	60	30	75	30	25	50	35	65	76	78	70	44	45
Raphidophytes	0	0	0	0	0	0	20	40	25	0	70	50	0	0	1	0	0	0	0	0	0	0	4	0	2	1	0	10	4	1
Other Flagellates	5	10	5	5	10	1	20	3	2	10	2	2	1	2	2	3	4	5	1	2	2	1	5	15	1	2	1	2	2	2
Zooplankton	20	30	10	10	10	9	20	7	3	35	3	3	14	23	30	7	26	20	9	8	3	4	5	5	0	1	1	3	2	3
Biomass	2.0	2.5	2.5	2.5	2.0	3.5	1.5	3.0	3.0	2.0	3.0	2.5	2.0	2.5	2.5	3.0	3.0	3.0	3.5	3.0	3.0	3.0	3.5	3.0	3.0	3.0	2.5	4.5	4.0	3.5

Table 66 cont'd

date	28-Aug			06-Sep			13-Sep			19-Sep			27-Sep			03-Oct			07-Oct			14-Oct			24-Oct			09-Nov			24-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																																	
Cryptomonads																																	
Dictyocha speculum		1											1	1		1	1	1	1	1		1			1	1	1		1				
Dinobryon balticum																																	
Ebria tripartita																																	
Euglenoid	1	1		1				1	1	1						1			1			1	1										
Phaeocystis pouchetii																																	
Radiolarian																																	
unid. Nanoflagellates	4	3	3	4	2	3	2	3	1	4	4	3	4	5	3	6	5	3	5	6	5	4	4	4	4	3	3	4	2	1	2	2	3
Zooplankton																																	
Amoeba																															1		1
Appendicularian																																	
Ciliate	4	1	2	2				1		2	1		2	2		7	2	1					2	3	1	1		3		1	1	2	
Copepod																																	
Nauplius																							1										
Pluteus																																	
Rotifer																																	
Tintinnid																																	
Zoea																																	
other																					1												
Dominant Species/Group																																	
name	*Cochlodinium polykrikoides*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Heterosigma akashiwo*	*Leptocylindrus minimus*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Heterosigma akashiwo*	dinoflagellates	*Prorocentrum gracile*	*Heterosigma akashiwo*	*Heterosigma akashiwo*	*Prorocentrum micans*	*Ceratium lineatum*	*Leptocylindrus minimus*	*Heterosigma akashiwo*	*Ceratium fusus*	*Heterosigma akashiwo*	*Ceratium furca*	*Torodinium robustum*	*Prorocentrum micans*	*Rhizosolenia fragilissima*	*Ceratium lineatum*	*Ceratium fusus*	*Ceratium furca*	*Ceratium furca*	*Ceratium fusus*	*Gonyaulax digitale*	*Coscinodiscus sp.*	*Gonyaulax digitale*	amoeboid sp.	dinoflagellates	dinoflagellates
count (cells/mL)	1600	5500	6500	~645	7000	~20	~60	~790	~10	~220	~210	~65	~8	~10	~750	~200	~4	~10	~6	~10	~6	~10	~14	~2	~3	~3	~2	~2	~1	~2	~20	~10	~10
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	5	43	38	3	39	25	8	8	0	10	2	10	5	30	80	2	10	50	15	5	5	40	5	0	0	30	30	5	40	19	5	0	0
Dinoflagellates	90	50	60	35	40	50	90	40	95	55	35	49	85	60	15	55	75	30	40	65	65	50	85	90	93	65	65	80	40	55	40	70	65
Raphidophytes	0	5	0	60	20	24	1	50	0	25	60	40	0	2	3	20	5	10	15	5	10	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	1	1	1	1	1	1	1	1	5	5	2	1	5	5	2	8	5	5	10	5	2	10	5	2	5	3	5	1	20	1	5	10	15
Zooplankton	4	1	1	1	0	0	0	1	0	5	1	0	5	3	0	15	5	5	20	20	18	0	5	8	2	2	0	14	0	25	50	20	20
Biomass	4.5	4.0	4.0	3.5	3.0	2.0	3.0	3.5	1.0	3.0	3.0	2.5	2.0	2.5	2.0	3.0	2.0	1.5	3.0	3.0	2.0	2.5	2.5	2.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.0	1.0

Table 67 : Diatoms in Bedwell Sound samples.

date	03-Apr			11-Apr			18-Apr			25-Apr			02-May			08-May			17-May			22-May			29-May			06-Jun		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																														
Asterionella japonica				1				1	1	1	1	1		1	1	1			1	1	1	1	1				1	1			
Bacteriastrum sp.																														
Biddulphia sp.																														
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus																				1	1						1	1	1	
Chaetoceros sp.				4	3			1	1	1	2	3	1	4	4	3	1	1	2	3	2	3	2	3	2	4	3	3	4	2
Corethron hystrix								1												1										
Coscinodiscus sp.																														
Cylindrotheca closterium								1																						
Dactylisolen sp.																														
Detonula pumila		1		1	1			1	1		1	1								1									1	
Ditylum brightwellii				1		1		1	1					1	1		1	1		1	1	1								
Eucampia zoodiacus				1					1		1																			
Grammatophora sp.								1																						
Hemiaulus sp.																														
Lauderia annulata																														
Leptocylindrus danicus				1				1		1	1			1	1		1		1	1	1	1	1	1	1	1	1		1	
Leptocylindrus minimus																												1		
Licmophora sp.																														
Melosira sp.					1																									
Navicula sp.																														
Nitzschioid sp.				1	1	1						1		1	1		1	1	1	1	1	1	1	1	1	1	1		1	
Pleurosigma/ Gyrosigma sp.			1												1															
Rhizosolenia setigera																													1	
Rhizosolenia sp. (pointy)				2							1				1		1										1		1	
Rhizosolenia sp. (blunt)																				1		1	1			1	1		1	1
Rhizosolenia stolterfothii																														
Skeletonema costatum	1		1	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Stephanopyxis sp.																														
Thalassionema sp.									1		1			1	1		1													
Thalassiosira sp.	2	2	2	2	2	2	2	3	2	2	2	3	1	2	2	1	1		1	1	1	1	1		1	1	1	1	1	

Table 67 cont'd

date	13-Jun			21-Jun			27-Jun			04-Jul			11-Jul			18-Jul			25-Jul			01-Aug			09-Aug			17-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis															1															
Asterionella japonica	1					1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1						
Bacteriastrum sp.													1						1											
Biddulphia sp.							1	2	1		1	1																		
Cerautaline sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus			1			1	1	1	1		1	1		1	1	1	1	1	1	1	1		1							
Chaetoceros sp.	3	1	2	3	1	2	7	4	5	3	6	5	4	5	6	6	7	7	5	7	5		4	4				1		
Corethron hystrix																														
Coscinodiscus sp.																													1	
Cylindrotheca closterium						1		1	1						1	1	1	1	1		1	1	1							1
Dactylisolen sp.																														
Detonula pumila																							1							
Ditylum brightwellii							1	1				1		1	1	1	1	1	1	1	1	1	1	1						
Eucampia zoodiacus		1	1			1		1				1	1	1	1	1	1	1	1	1	1	1	1	1						
Grammatophora sp.																														
Hemiaulus sp.																														
Lauderia annulata																														
Leptocylindrus danicus	1	1	1	1	1	1	1	1	1	1	1	1							1	1	1	1	1	1				1	1	
Leptocylindrus minimus																														
Licmophora sp.				1																										
Melosira sp.																														
Navicula sp.		1									1			1	1	1			1	1		1		1						
Nitzschioid sp.									1		1			1	1		1	1	1	1	1	1	1							
Pleurosigma/ Gyrosigma sp.																							1							
Rhizosolenia setigera		1					1	1	1	1		1	1	1	1		1	1	1	1	1	1	1							1
Rhizosolenia sp. (pointy)	1	1	1			1		1	1		1	1		1	1	1	1	1		1	1	1	1							
Rhizosolenia sp. (blunt)		1				1		1							1	1				1	1	1							1	
Rhizosolenia stolterfothii	1	1	1		1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1						
Skeletonema costatum			1	1	1	1	1	1	1		1	1	1		1	1	1	1	1	1	1	1	1	1						
Stephanopyxis sp.			1							1	1			1	1		1	1												
Thalassionema sp.									1		1	1		1	1	1	1	1	1	1	1		1	1						
Thalassiosira sp.	1	1	1			1		1	1	1		1		1	1		1	1	1	1	1		1	1						

Table 67 cont'd

date	23-Aug			30-Aug			05-Sep			13-Sep			19-Sep			27-Sep			04-Oct			07-Oct			15-Oct			25-Oct			02-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																																	
Achnanthes sp.																																	
Amphiprora/ Tropidoneis																																	
Asterionella japonica										1	1		1	1		1			1	1		1	1	1									
Bacteriastrum sp.																																	
Biddulphia sp.																																	
Cerautalina sp.																																	
Chaetoceros concavicorne																																	
Chaetoceros convolutus																																	
Chaetoceros sp.		1								4	3	3	3	2	2	4	5	1	1	1	1	3	3	2		1							
Corethron hystrix																																	
Coscinodiscus sp.													1																				
Cylindrotheca closterium																																	
Dactylisolen sp.														1		1			1			1											
Detonula pumila			1	1																		1											
Ditylum brightwellii							1			1	1	1	1		1	1	1	1				1											
Eucampia zoodiacus																1	1					1											
Grammatophora sp.																																	
Hemiaulus sp.																																	
Lauderia annulata																																	
Leptocylindrus danicus		1								1	1	1	1			1	1												1				
Leptocylindrus minimus					1					1	1	1	1		1	1	1	1				1	1	1									
Licmophora sp.																																	
Melosira sp.																																	
Navicula sp.										1						1			1	1													
Nitzschioid sp.										1			1											1					1	1			1
Pleurosigma/ Gyrosigma sp.																																	
Rhizosolenia setigera																																	
Rhizosolenia sp. (pointy)										1																							
Rhizosolenia sp. (blunt)		1								1	1	1	1			1	1	1				1											
Rhizosolenia stolterfothii										1			1			1	1		1														
Skeletonema costatum							1			1	1	1	1	1	1	1	1	1	1	1		1	1	1		1		1	1				
Stephanopyxis sp.																																	
Thalassionema sp.										1			1				1	1		1		1											
Thalassiosira sp.				1		1				1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	1	1	1	2	2	1			

Table 68 : Dinoflagellates in Bedwell Sound samples.

date	03-Apr			11-Apr			18-Apr			25-Apr			02-May			08-May			17-May			22-May			29-May			06-Jun		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.												1																	1	
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.																									1	1				
Dinophysioid sp.																1			1	1									1	
Diplopsalis sp.																														
Gonyaulacoid sp.														1																
Gymnodinioid sp.	2	1	2	1	1	2	2	3	2	2	3	3	2	2	2	2	1	1	3	1	3	1			3	2	2	1	3	2
Gymnodinium galatheanum																														
Gyrodinium spirale-type																									1	1				
Heterocapsa triquetra													1															1		
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum sp.																														
Protoperidinioid sp.				1		1						1			1			1	1		1				2	1			1	
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 68 cont'd

date	13-Jun			21-Jun			27-Jun			04-Jul			11-Jul			18-Jul			25-Jul			01-Aug			09-Aug			17-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.																		1												
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																1			1							1				
Ceratium lineatum																									1				1	
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.																														
Dinophysioid sp.													1								2								1	
Diplopsalis sp.																														
Gonyaulacoid sp.		1																	1	1	1		1			1	1	1	1	1
Gymnodinioid sp.	1	2	2	1		2	4	4	3		1	2	2	1	3	1	4	5	3	5	4	4	3	2	3	5	3	4	4	2
Gymnodinium galatheanum																													1	
Gyrodinium spirale-type	1		1																											
Heterocapsa triquetra										1				1		1			1		1				1	1		1	1	1
Noctiluca scintillans																										1				
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides																														
Polykrikos sp.																					1									
Prorocentrum gracile																			1											
Prorocentrum micans																1			1											
Prorocentrum sp.																														
Protoperidinioid sp.		2			2	1	3	1	2			1	1	1	1		2		1		2	1	2	2	3	2	1	3	3	1
Pyrocystis lunula																														
Raphidophytes																									1			1	1	1
Heterosigma akashiwo																														

Table 68 cont'd

date	23-Aug			30-Aug			05-Sep			13-Sep			19-Sep			27-Sep			04-Oct			07-Oct			15-Oct			25-Oct			02-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																																	
Alexandrium sp.																																	
Amphidinium sp.											1																						
Ceratium divaricatum																																	
Ceratium furca																						1											
Ceratium fusus		1	1																														
Ceratium lineatum		1						1																									
Ceratium pentagonum																																	
Ceratium sp.																															1		
Cochlodinium polykrikoides													1	1	1	1	1																
Cochlodinium sp.																																	
Dinophysioid sp.		1		1			1						1																				
Diplopsalis sp.										1																							
Gonyaulacoid sp.		1				1																							1				
Gymnodinioid sp.	1	4	3	2	5	3	4	5	2	3	3	4	5	2	1	4	2		6	6	2	6	4	4	5	3	4	1	1		3	3	1
Gymnodinium galatheanum																																	
Gyrodinium spirale-type				1	2	1	1	1	1			1	1			2	2			1		1	1	1		1	1						
Heterocapsa triquetra										1																							
Noctiluca scintillans																																	
Noctilucoid sp.																																	
Oxyrrhis marina																																	
Oxyphysis oxytoxoides		1																															
Polykrikos sp.		1																															
Prorocentrum gracile				1			1			1																			1				
Prorocentrum micans																																	
Prorocentrum sp.																																	
Protoperidinioid sp.		4	2		1	1							1	1					3	5	3	1									1	1	
Pyrocystis lunula																													2				
Raphidophytes																																	
Heterosigma akashiwo																																	

Table 69 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Bedwell Sound samples.

date	03-Apr			11-Apr			18-Apr			25-Apr			02-May			08-May			17-May			22-May			29-May			06-Jun		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum				1		1							1									1			1					
Dinobryon balticum																					1									
Ebria tripartita																													1	
Euglenoid				1		1																								
Phaeocystis pouchetii																														
Radiolarian																									3	2	3			
unid. Nanoflagellates	5	3	4	2	3	4	4	4	5	5	4	5	4	4	5	4	3	4	3	2	2	3	3	3				3	3	2
Zooplankton																														
Amoeba																														
Appendicularian																														
Ciliate	1	2	2					1	1		1			1	1	1	1		1	1	1				2			2	2	1
Copepod																														
Nauplius																			1		1									
Pluteus																														
Rotifer																						1								
Tintinnid																														
Zoea																														
other																														
Dominant Species/Group																														
name	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Detonula pumila*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Rhizosolenia stolterfothii*	*Rhizosolenia stolterfothii*
count (cells/mL)	~20	~18	~12	~90	~60	~40	~30	~160	~250	~40	~230	~200	~150	~740	~600	~430	~100	~100	1190	~780	~500	1600	~550	~300	~170	~220	~150	1700	~100	~40
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	65	75	70	94	97	92	85	90	93	85	85	85	85	87	85	75	85	85	70	85	85	90	95	90	60	83	75	90	80	90
Dinoflagellates	20	10	15	5	2	5	10	5	3	10	10	13	10	8	10	15	5	10	20	8	10	3	0	0	30	15	20	5	15	6
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	5	5	5	1	1	3	5	2	2	5	3	2	5	2	2	5	5	5	5	2	2	5	5	10	5	2	5	2	3	2
Zooplankton	10	10	10	0	0	0	0	3	2	0	2	0	0	3	3	5	5	0	5	5	3	2	0	0	5	0	0	3	2	2
Biomass	2.5	2.5	2.0	2.5	2.5	2.0	2.0	2.5	3.0	2.0	3.0	3.0	2.5	3.0	3.0	3.0	2.5	2.5	2.5	2.5	2.5	3.0	2.5	2.0	2.0	2.5	2.0	3.0	2.5	2.0

Table 69 cont'd

date	13-Jun			21-Jun			27-Jun			04-Jul			11-Jul			18-Jul			25-Jul			01-Aug			09-Aug			17-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																							1			1			1	
Dictyocha speculum			1		1																									
Dinobryon balticum																														
Ebria tripartita																														
Euglenoid		1		1			1	1								1	1			1	1				1					1
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	2	2	2	3	2	2	3	3	2	2	2	3	2	3	3	3	2	2	3	3	3	2	2	2	3	1	2	3	3	2
Zooplankton																														
Amoeba																														
Appendicularian																														
Ciliate		4	1	1	2	1	2	1					1	2	1	3	2		2	2	3	5	2	1	1	2	2	2	2	1
Copepod																														
Nauplius												1																		
Pluteus																			1											
Rotifer																			1											
Tintinnid			1				1							1			1	1										1		
Zoea																														
other																														
Dominant Species/Group																														
name	*Leptocylindrus danicus*	*Leptocylindrus danicus*	*Rhizosolenia stolterfothii*	*Skeletonema costatum*	*Rhizosolenia stolterfothii*	*Rhizosolenia stolterfothii*	*Rhizosolenia stolterfothii*	*Rhizosolenia stolterfothii*	*Rhizosolenia stolterfothii*	*Leptocylindrus danicus*	*Rhizosolenia stolterfothii*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Heterocapsa triquetra*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Skeletonema costatum*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Chaetoceros spp.*	*Eucampia zoodiacus*	gymnodinioid dinoflagellates	gymnodinioid dinoflagellates	*Gonyaulax digitale*	gymnodinioid dinoflagellates	*Leptocylindrus danicus*	*Gonyaulax digitale*
count (cells/mL)	~80	~90	~70	~170	~25	~150	~160	~530	~340	~140	~120	~300	~700	~500	~600	~40	~130	~100	1200	~530	~240	~100	~300	~60	~15	~60	~60	~40	~25	~35
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	90	66	87	75	75	90	85	85	90	90	95	92	80	85	85	60	84	85	75	88	85	60	80	90	0	0	0	10	30	2
Dinoflagellates	8	20	7	5	10	5	10	10	9	8	3	5	13	5	10	30	10	12	20	8	10	30	15	6	55	85	85	80	50	70
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	1	5	8
Other Flagellates	2	4	3	15	5	2	3	5	1	2	2	2	5	5	2	5	3	2	2	2	2	2	2	2	25	5	5	4	5	10
Zooplankton	0	10	3	5	10	3	2	0	0	0	0	1	2	5	3	5	3	1	3	2	3	8	3	2	10	10	10	5	10	10
Biomass	2.5	3.0	2.5	2.0	2.0	3.0	3.5	4.0	3.5	2.5	3.5	3.5	2.5	3.0	3.5	3.5	4.0	3.5	4.0	4.0	3.5	2.5	3.0	2.5	1.0	2.0	1.5	2.0	2.0	2.0

Table 69 cont'd

date	23-Aug			30-Aug			05-Sep			13-Sep			19-Sep			27-Sep			04-Oct			07-Oct			15-Oct			25-Oct			02-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																																	
Cryptomonads																																	
Dictyocha speculum							1				1	1		1								1							1				
Dinobryon balticum																																	
Ebria tripartita																																	
Euglenoid			1										1														1						
Phaeocystis pouchetii																																	
Radiolarian																																	
unid. Nanoflagellates	2	3	2	2	3	2	3	5	3	2	4	2	4	4	2	2	2	1	5	3	4	3	2	2	4	4	2	2	4	4	3	2	1
Zooplankton																																	
Amoeba																																	
Appendicularian																																	
Ciliate		3		1	3	1	3	1	1	2	2		2			4			2	4	2	4	2	2									
Copepod																																	
Nauplius		1											1																1				
Pluteus																													1				
Rotifer																																	
Tintinnid		1									1		1																				
Zoea																																	
other																																	
Dominant Species/Group																																	
name	*gymnodinioid dinoflagellates*	*gymnodinioid dinoflagellates*	*dinoflagellates*	*Prorocentrum gracile*	*gymnodinioid dinoflagellates*	*gymnodinioid dinoflagellates*	*Skeletonema costatum*	*gymnodinioid dinoflagellates*	*gymnodinioid dinoflagellates*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Chaetoceros spp.*	*Skeletonema costatum*	*Asterionella japonica*	*Skeletonema costatum*	*Skeletonema costatum*	*dinoflagellates*	*dinoflagellates*	*dinoflagellates*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira aestivalis*	*Thalassiosira aestivalis*	*Thalassiosira aestivalis*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira sp.*	*Ceratium longipes*	*dinoflagellates*	*Pseudonitzschia sp.*
count (cells/mL)	~2	~80	~70	~3	~90	~35	~20	~35	~10	7500	~480	~460	1900	~20	~240	~490	~920	~120	~100	~120	~20	~470	~180	~80	~40	~18	~16	~100	~30	~10	~1	~5	~2
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	0	10	5	30	5	10	45	0	0	80	85	85	75	55	90	85	95	99	40	40	10	85	90	90	50	80	85	90	45	70	4	0	59
Dinoflagellates	50	75	90	60	75	75	50	90	90	17	7	10	20	30	5	10	4	0	50	53	80	9	7	7	45	15	10	5	15	0	90	80	40
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	50	2	5	5	5	5	2	5	5	1	3	5	1	15	5	1	1	1	5	2	5	1	1	1	5	5	5	5	5	15	1	1	1
Zooplankton	0	13	0	5	15	10	3	5	5	2	5	0	4	0	0	4	0	0	5	5	5	5	2	2	0	0	0	0	35	15	5	19	0
Biomass	1.0	2.0	2.0	1.0	2.0	1.5	2.0	1.5	1.0	4.5	3.0	3.0	3.0	1.5	1.5	3.5	3.0	2.0	2.0	2.0	1.5	3.5	2.5	2.0	2.0	1.5	1.0	2.5	1.5	1.0	1.5	1.0	1.0

Table 70 : Diatoms in Indian Bay samples.

date	16-Apr			23-Apr			30-Apr			07-May			14-May			21-May			29-May			04-Jun			11-Jun			18-Jun		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																														
Asterionella japonica														1									1					1		
Bacteriastrum sp.		1																												
Biddulphia sp.																														
Campylosira/Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus																														
Chaetoceros sp.	2	3	4	1	8	5	2	3	3	1	2	2	2	3	4	2		1	2	1	2	2	5	5		2	1	4	5	3
Corethron hystrix		1																												
Coscinodiscus sp.				1	1	1																								
Cylindrotheca closterium			1			1		1						1						1			1		1			1		
Dactylisolen sp.																														
Detonula pumila		1	1																											
Ditylum brightwellii	1				1	1		1				1	1	1		1		1						1		1		1	1	
Eucampia zoodiacus																												1		
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus	1		1		1	1		1	1	1	1		1	1								1		1		1	1	1	1	1
Leptocylindrus minimus																														
Licmophora sp.													1									1								
Melosira sp.																														
Navicula sp.			1	1																		1	1							
Nitzschioid sp.		1		1		1	1	1	1			1	1	1				1	1	1	1	1	1	1						
Pleurosigma/ Gyrosigma sp.					1									1												1				
Rhizosolenia setigera																														
Rhizosolenia sp. (pointy)	1		1				1	1	1		1		1	1	1															
Rhizosolenia sp. (blunt)	1	1						1																			1	1	1	1
Rhizosolenia stolterfothii															1		1											1	1	
Skeletonema costatum	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Stephanopyxis sp.																														
Thalassionema sp.		1	1			1	1						1	1		1			1	1	1			1						
Thalassiosira sp.	2	3	2	3	3	3	2	2	2	1	1	2	1	1	2		1	1					2	1	1	1		2		

Table 70 cont'd

date	25-Jun			02-Jul			09-Jul			16-Jul			23-Jul			30-Jul			06-Aug			13-Aug			20-Aug			28-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																1		1												
Asterionella japonica			1	1	1	1	1	1	1	1	1	1	1		1	1		1			1									
Bacteriastrum sp.		1								1	1																			
Biddulphia sp.			1									1	1		1	1		1												
Campylosira/Plagiogramma																														
Cerataulina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus									1		1			1	1		1													
Chaetoceros sp.	4	4	2	5	4	4	4	5	5	3	6	5	6	5	7	5	5	4	4	3	1			1		1			1	
Corethron hystrix													1	1	1															
Coscinodiscus sp.																	1													
Cylindrotheca closterium								1				1		1				1						1						
Dactyliosolen sp.													1																	
Detonula pumila											1	1																		
Ditylum brightwellii	1		1	1	1	1	1	1	1	1	1	1		1	1	1	1	1		1							1			
Eucampia zoodiacus		1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1												
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata													1			1	1	1		1										
Leptocylindrus danicus	1	1	1	1	1	1	1	1	1			1		1	1	1	1	1						1		1				
Leptocylindrus minimus																										1	1			
Licmophora sp.							1				1		1				1						1							
Melosira sp.																														
Navicula sp.									1				1																	
Nitzschioid sp.	1			1	1	1		1		1	1	1	1	1		1	1	1		1	1		1	1					1	1
Pleurosigma/ Gyrosigma sp.									1		1																			
Rhizosolenia setigera		1	1							1		1	1	1	1	1	1	1	1	1	1									
Rhizosolenia sp. (pointy)														1	1	1	1													
Rhizosolenia sp. (blunt)		1						1	1		1	1			1	1	1							1			1			
Rhizosolenia stolterfothii		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1												
Skeletonema costatum	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			1	1	1						1
Stephanopyxis sp.										1	1	1		1	1															
Thalassionema sp.					1						1			1							1									
Thalassiosira sp.	1	2	2	1	1	2	1		1	1		1	1	1	1	1	2	2	1		1		2		1	1	1			

Table 70 cont'd

date	10-Sep			18-Sep			25-Sep			02-Oct			10-Oct			17-Oct			22-Oct			30-Oct			05-Nov			12-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.																														
Biddulphia sp.																														
Campylosira/Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus																														
Chaetoceros sp.				1		1		1		1	2	1		1	1											1	1			
Corethron hystrix																														
Coscinodiscus sp.																				1										
Cylindrotheca closterium																														
Dactyliosolen sp.																												1		
Detonula pumila																														
Ditylum brightwellii		1		1							1	1			1					1			1							
Eucampia zoodiacus											1																			
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus	1	1				1																					1			
Leptocylindrus minimus	1	1	1																											
Licmophora sp.						1																								
Melosira sp.					1	1																								
Navicula sp.						1				1									1											
Nitzschioid sp.					1														1						1	1	1			1
Pleurosigma/ Gyrosigma sp.				1																										
Rhizosolenia setigera																				1				1						
Rhizosolenia sp. (pointy)																														
Rhizosolenia sp. (blunt)		1											1	1	1	1	1	1		1										
Rhizosolenia stolterfothii											1						1													
Skeletonema costatum		1	1	1		1		1		1	1	1	1	1	1			1		1		1					1		1	
Stephanopyxis sp.																														
Thalassionema sp.																														
Thalassiosira sp.				1		1				1		1	1	1		1				1	1			1		1		1		

Table 70 cont'd

date	19-Nov			27-Nov		
depth	1m	5m	10m	1m	5m	10m
Diatoms						
Achnanthes sp.						
Amphiprora/ Tropidoneis						
Asterionella japonica						
Bacteriastrum sp.						
Biddulphia sp.						
Campylosira/Plagiogramma						
Cerautalina sp.						
Chaetoceros concavicorne						
Chaetoceros convolutus						
Chaetoceros sp.					2	
Corethron hystrix						
Coscinodiscus sp.						
Cylindrotheca closterium						
Dactylisolen sp.						
Detonula pumila						
Ditylum brightwellii						
Eucampia zoodiacus						
Grammatophora sp.						
Hemialus sp.						
Lauderia annulata						
Leptocylindrus danicus						
Leptocylindrus minimus						
Licmophora sp.						
Melosira sp.						
Navicula sp.						1
Nitzschioid sp.						
Pleurosigma/ Gyrosigma sp.						
Rhizosolenia setigera						
Rhizosolenia sp. (pointy)						
Rhizosolenia sp. (blunt)						
Rhizosolenia stolterfothii						
Skeletonema costatum	1					
Stephanopyxis sp.						
Thalassionema sp.						
Thalassiosira sp.						

Table 71 : Dinoflagellates in Indian Bay samples.

date	16-Apr			23-Apr			30-Apr			07-May			14-May			21-May			29-May			04-Jun			11-Jun			18-Jun		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.		1				1									1									1						
Ceratium div[illegible]tum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.																														
Dinophysioid sp.	1												1	1			1													
Gonyaulacoid sp.					1																									
Gymnodinioid sp.	4	4	4	1	2	1	1	2	2	1	3	2	4	4	4	1	3	1	2	2	1	3	7	4	3	2	2	3	2	3
Gymnodinium galatheanum																														
Gyrodinium spirale - type	1					1		1						1	1		1						1	1						
Heterocapsa triquetra																														
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum minimum																														
Prorocentrum sp.																														
Protoperidinioid sp.	1	1				3				1				2	1		1					4	1	1	1	1	1		3	2
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 71 cont'd

date	25-Jun			02-Jul			09-Jul			16-Jul			23-Jul			30-Jul			06-Aug			13-Aug			20-Aug			28-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.																	1													
Ceratium divaricatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																	1								1					
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																									1					
Cochlodinium sp.																														
Dinophysioid sp.					1														1				1							
Gonyaulacoid sp.		1															1													
Gymnodinioid sp.	2	1	4	2	4	5	1	2	2	3	2	2	3	2	1	2	4	4	7	2	3	5	3	5	5	6	8	4	2	3
Gymnodinium galatheanum																														
Gyrodinium spirale - type		1				1	1	1	1		1	1			1	1			1	1	1		1	1	1	1	2			
Heterocapsa triquetra																	1								1					
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile																				1										
Prorocentrum micans																														
Prorocentrum minimum																														
Prorocentrum sp.																						1								
Protoperidinioid sp.	3		2	1	2	2	2			1	2						3	1	3	1		5	1	1	3	3	2			
Pyrocystis lunula							1								1															
Raphidophytes																														
Heterosigma akashiwo				1							1		1			1		1	1	1	1	1	1	1	1	1	1		1	1

Table 71 cont'd

date	10-Sep			18-Sep			25-Sep			02-Oct			10-Oct			17-Oct			22-Oct			30-Oct			05-Nov			12-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.																														
Ceratium divaricatum																												1		1
Ceratium furca																														1
Ceratium fusus					1																									
Ceratium lineatum															1															
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.																														
Dinophysioid sp.										1																1				
Gonyaulacoid sp.			1											1													1	1		
Gymnodinioid sp.	4	4	3	3	3	3	7	6	5	2		3	6	5	5	5	4	3	3	2	3	5	5	5	4	7	4	3	6	6
Gymnodinium galatheanum																														
Gyrodinium spirale - type		1									1			1	1					1						1			1	
Heterocapsa triquetra																														
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile											1			1																
Prorocentrum micans																														
Prorocentrum minimum							1	1	1	1			1	1	1	1	1	1	1		1	1	1							
Prorocentrum sp.																														
Protoperidinioid sp.					1															1						3		1		1
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																			1	1	1									

Table 71 cont'd

date	19-Nov			27-Nov		
depth	1m	5m	10m	1m	5m	10m
Dinoflagellates						
Alexandrium sp.						1
Amphidinium sp.						
Ceratium divaricatum		1				
Ceratium furca						
Ceratium fusus						
Ceratium lineatum						
Ceratium pentagonum						
Ceratium sp.						
Cochlodinium polykrikoides						
Cochlodinium sp.						
Dinophysioid sp.						
Gonyaulacoid sp.		1				1
Gymnodinioid sp.	3	4	5	4	3	3
Gymnodinium galatheanum						
Gyrodinium spirale - type						
Heterocapsa triquetra						
Noctiluca scintillans						
Noctilucoid sp.						
Oxyrrhis marina						
Oxytoxum sp.						
Polykrikos sp.						
Prorocentrum gracile						
Prorocentrum micans						
Prorocentrum minimum						
Prorocentrum sp.						
Protoperidinioid sp.						
Pyrocystis lunula						
Raphidophytes						
Heterosigma akashiwo						

Table 72 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Indian Bay samples.

date	16-Apr			23-Apr			30-Apr			07-May			14-May			21-May			29-May			04-Jun			11-Jun			18-Jun		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																											1	1		
Dictyocha speculum	1		1										1																	
Dinobryon balticum																														
Ebria tripartita	1		1				1							1			1	1						1					1	
Euglenoid	1									1									1			1	1	1	1	1	1			1
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	3	4	4	4	5	3	5	4	4	5	4	4	4	4	5	4	4	4	3	3	4	5	4	2	3	3	3	2	3	3
Zooplankton																														
Appendicularian																							1							
Ciliate	4	2	3	6	6	3	1	1	1	2	2	1	2	1	1	2	2	2	1	2	1	5	7	4	2	1	3	4	1	3
Copepod																														1
Nauplius	1																													
Pluteus																														
Rotifer																														
Tintinnid								1								1			1						1				1	
Zoea																														
other																														
Dominant Species/Group																														
name	*Skeletonema costatum*	*Thalassiosira spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Chaetoceros spp.*	*Skeletonema costatum*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*
count (cells/mL)	620	460	210	900	300	400	1100	1000	450	2200	750	610	2600	2400	1700	1400	400	500	1200	1100	350	6800	3300	3800	80	70	50	800	400	150
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	65	80	76	80	78	84	90	86	80	90	85	90	85	86	80	88	65	80	80	83	75	70	65	75	30	50	30	70	75	60
Dinoflagellates	15	16	16	5	5	6	3	8	10	5	10	5	10	10	16	5	25	5	10	10	10	10	15	10	30	25	25	15	15	20
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	6	1	4	3	2	2	4	2	5	1	2	2	2	2	2	2	5	5	5	2	5	15	5	5	25	15	25	2	5	5
Zooplankton	14	3	4	12	15	8	3	4	5	4	3	3	3	2	2	5	5	10	5	5	10	5	15	10	15	10	20	13	5	15
Biomass	3.0	3.0	2.5	3.0	3.0	3.0	3.0	3.0	2.5	3.5	3.0	2.5	3.5	3.5	3.0	3.0	2.5	2.0	3.0	3.0	2.0	3.5	3.0	3.0	2.0	2.0	1.5	3.0	2.5	2.0

Table 72 cont'd

date	25-Jun			02-Jul			09-Jul			16-Jul			23-Jul			30-Jul			06-Aug			13-Aug			20-Aug			28-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																							1							
Dictyocha speculum						1																								
Dinobryon belticum																											1			
Ebria tripartita				1																							1			
Euglenoid							1	1		1																				
Phaeocystis pouchetii							4	3	2																					
Radiolarian																														
unid. Nanoflagellates	2	2	2	3	2	2				3	3	3	3	2	2	2	2	3	3	3	4	5	5	5	4	5	5	3	2	3
Zooplankton																														
Appendicularian						1																								
Ciliate	5	2	2		3	6	2	1	3	3	2	3	1		2	2	5	2	4	4	3	6	7	5	9	7	7	3	2	1
Copepod																										1				
Nauplius									1												1			1						
Pluteus																									1					
Rotifer																			1			2				1	1			
Tintinnid										1																				
Zoea																														
other																		1												
Dominant Species/Group																														
name	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Rhizosolenia stolterfothii*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Rhizosolenia stolterfothii*	*Chaetoceros spp.*	*Skeletonema costatum*	*Heterosigma akashiwo*	*Heterosigma akashiwo*	*Heterosigma akashiwo*	*Heterosigma akashiwo*	*Skeletonema costatum*	*Heterosigma akashiwo*	ciliates	*Heterosigma akashiwo*	*Heterosigma akashiwo*	*Gymnodinium sp.*	*Gymnodinium spp.*	*Gymnodinium sp.*
count (cells/mL)	~400	~700	~600	700	70	1000	~350	~120	~90	~300	~600	~260	~180	~120	~250	~120	~900	~250	~16	~30	~25	~120	~200	~150	~100	~110	~60	~135	~70	~60
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	60	80	75	93	75	70	85	80	80	80	90	90	90	95	93	80	89	92	20	50	40	10	35	25	10	20	10	5	10	10
Dinoflagellates	20	10	20	5	15	15	7	13	10	10	5	6	7	4	4	10	6	5	50	15	15	25	20	20	35	20	25	45	35	50
Raphidophytes	0	0	0	<1	0	0	0	0	0	0	0	0	0	0	0	4	0	0	10	10	15	35	25	35	10	30	25	0	30	5
Other Flagellates	2	2	2	2	2	2	5	5	2	3	2	2	1	1	2	1	1	1	5	5	5	10	5	5	3	5	5	20	10	30
Zooplankton	18	8	3	0	8	13	3	2	8	7	3	2	2	0	1	5	4	2	15	20	25	20	15	15	42	25	35	30	15	5
Biomass	2.5	2.5	2.5	3.5	3.0	3.5	2.5	3.0	3.0	3.0	3.5	3.5	3.0	3.5	3.0	3.5	4.0	3.0	2.0	2.0	2.0	2.5	2.0	2.5	2.5	2.5	2.0	2.5	2.0	2.0

Table 72 cont'd

date	10-Sep			18-Sep			25-Sep			02-Oct			10-Oct			17-Oct			22-Oct			30-Oct			05-Nov			12-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum				1																										
Dinobryon balticum																														
Ebria tripartita																			1											
Euglenoid	1						1	1								1				1					1	1	1			1
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	5	3	3	3	4	2	6	3	3	4	5	2	5	2	4	4	5	4	4	4	4	6	4	5	5	4	6	6	5	4
Zooplankton																														
Appendicularian																														
Ciliate	7	2	3	1	3	1	5	4	2	3			6	5	3	4	5	2	6	4	2	6	7	3	2	4	3	3	4	4
Copepod																														
Nauplius				1																										
Pluteus																														
Rotifer																														
Tintinnid				2			1							1								3								
Zoea																														
other																														
Dominant Species/Group																														
name	ciliates	*Skeletonema costatum*	gymnodinioid dinoflagellates	diatoms	dinoflagellates	*Skeletonema costatum*	*Prorocentrum minimum*	dinoflagellates	dinoflagellates	*Prorocentrum minimum*	*Dinophysis brightwellii*	*Dinophysis brightwellii*	*Prorocentrum minimum*	*Prorocentrum minimum*	*Prorocentrum minimum*	*Rhizosolenia fragilissima*	ciliates	*Rhizosolenia fragilissima*	*Mesodinium rubrum*	*Mesodinium rubrum*	ciliates	ciliates & tintinnids	ciliates	dinoflagellates	euglenoid sp.	euglenoid sp.	euglenoid sp.	dinoflagellates	dinoflagellates	dinoflagellates
count (cells/mL)	~60	~140	~20	~20	~15	~100	~60	~35	~30	~10	~2	~1	~100	~50	~40	~70	~10	~5	~15	~5	~15	~30	~20	~10	1300	~240	~180	~20	~20	~20
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	10	85	23	60	20	20	0	15	0	25	88	90	35	20	20	55	45	65	5	55	5	5	5	10	2	5	20	5	5	5
Dinoflagellates	5	8	70	10	55	70	80	70	90	65	10	9	50	65	50	5	5	5	25	15	60	30	25	50	5	35	30	55	55	55
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	5	2	2	10	5	5	5	5	5	2	2	1	1	1	1	30	5	5	5	5	5	10	10	10	88	50	40	20	10	15
Zooplankton	80	5	5	20	20	5	15	10	5	8	0	0	14	14	29	10	45	25	45	25	30	55	60	30	5	10	10	20	30	25
Biomass	2.0	1.5	1.0	1.5	1.0	2.0	2.0	1.5	1.5	1.0	1.5	1.0	2.5	2.5	2.5	3.0	1.0	1.0	2.0	1.5	1.0	1.5	1.5	1.5	3.5	2.5	2.0	1.5	1.5	1.5

Table 72 cont'd

date	19-Nov			27-Nov		
depth	1m	5m	10m	1m	5m	10m
Other Flagellates						
Cryptomonads						
Dictyocha speculum						
Dinobryon balticum						
Ebria tripartita						
Euglenoid	1	1	1	1	1	1
Phaeocystis pouchetii						
Radiolarian						
unid. Nanoflagellates	3	3	2	3	3	4
Zooplankton						
Appendicularian						
Ciliate	3	4	1	2	2	1
Copepod						
Nauplius		1				
Pluteus						
Rotifer						
Tintinnid				1		
Zoea						
other						
Dominant Species/Group						
name	ciliates	*Ceratium divaricatum*	gymnodinioid dinoflagellates	euglenoid sp.	*Chaetoceros spp*	dinoflagellates
count (cells/mL)	~4	~3	~10	~120	~22	~10
% constituent	100	100	100	100	100	100
Diatoms	5	0	0	0	50	20
Dinoflagellates	15	60	85	10	10	60
Raphidophytes	0	0	0	0	0	0
Other Flagellates	45	1	5	70	30	15
Zooplankton	35	39	10	20	10	5
Biomass	1.0	2.5	1.0	2.0	1.5	1.0

Table 73 : Diatoms in Charlie's Place samples.

date	1-May			10-May			24-May			7-Jun			14-Jun			24-Jun			1-Jul			11-Jul			25-Jul			16-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																		1												
Asterionella japonica																				1		1	1	1						
Bacteriastrum sp.																					1									
Biddulphia sp.																														
Campylosira/Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne																						1	1	1						
Chaetoceros convolutus																														
Chaetoceros tenuissimus																														
Chaetoceros sp.		1	1													3	4	3	2	1	2	3	3	5						
Corethron hystrix																								1						
Coscinodiscus sp.																							1							
Cylindrotheca closterium																							1							
Dactylisolen sp.																					1						1			
Detonula pumila		1	1																					1						
Ditylum brightwellii			1																				1							
Eucampia zoodiacus			1															1												
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																1	1	1	1		1		1	1			1			
Leptocylindrus danicus		1	1																											
Leptocylindrus minimus																			1				1							
Licmophora sp.				1		1	1	1					1																	
Melosira sp.																														
Navicula sp.			1																											
Nitzschioid sp.		1		1			1	1								1	1	1		1	1	1	1	1						
Pleurosigma/ Gyrosigma sp.													1																	
Rhizosolenia setigera																					1									
Rhizosolenia sp. (pointy)		1	1															1			1			1		1	1			
Rhizosolenia sp. (blunt)																1		1	1		1		1	1						
Rhizosolenia stolterfothii		1	1				1		1	1	1	1	1			1	1	1	1	1	1	1	1	1						
Skeletonema costatum																														
Stephanopyxis sp.																														
Striatella/Rhabdonema																						1								
Thalassionema sp.									1							1	1				1		1	1						
Thalassiosira sp.				1	1		1				1																			

Table 73 cont'd

date	30-Aug			11-Sep			25-Sep			1-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms												
Achnanthes sp.						1						
Amphiproral Tropidoneis												
Asterionella japonica												
Bacteriastrum sp.												
Biddulphia sp.							1	1				
Campylosiral Plagiogramma												
Cerautalina sp.												
Chaetoceros concavicorne												
Chaetoceros convolutus												
Chaetoceros tenuissimus							1	1	1			
Chaetoceros sp.				1	1					1		
Corethron hystrix												
Coscinodiscus sp.						1						
Cylindrotheca closterium												
Dactylisolen sp.												
Detonula pumila												
Ditylum brightwellii								1				
Eucampia zoodiacus												
Grammatophora sp.										1		
Hemialus sp.												
Lauderia annulata												
Leptocylindrus danicus												
Leptocylindrus minimus				1	1							
Licmophora sp.				1	1		1					
Melosira sp.				1		1	1				1	
Navicula sp.					1	1	1			1		
Nitzschioid sp.				1		1	1		1			
Pleurosigma/ Gyrosigma sp.												
Rhizosolenia setigera												
Rhizosolenia sp. (pointy)												
Rhizosolenia sp. (blunt)												
Rhizosolenia stolterfothii												
Skeletonema costatum												
Stephanopyxis sp.												
Striatella/Rhabdonema												
Thalassionema sp.				1						1	1	1
Thalassiosira sp.							1			1		

Table 74 : Dinoflagellates in Charlie's Place samples 2001.

date	1-May			10-May			24-May			7-Jun			14-Jun			24-Jun			1-Jul			11-Jul			25-Jul			16-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.											1	1					1			1									1	
Amphidinium sp.																														
Ceratium divaricatum																		1										1	1	1
Ceratium furca																											1	1		1
Ceratium fusus											1		1		1						1			1				1	1	1
Ceratium lineatum																														
Ceratium pentagonum																												1	1	1
Ceratium sp.																									1	1	1	1	1	1
Cochlodinium polykrikoides																														
Cochlodinium sp.										1	1			1						1								2	2	1
Dinophysioid sp.	1		2																									1		1
Diplopsalis sp.											1	1						1											1	1
Gonyaulacoid sp.																														
Gymnodinioid sp.	2	2	2	3	4	3	3	4	2	3	2	3	1	2	1	3	1	1	3	2	3	3	1	5	4	5	4	5	7	6
Gymnodinium galatheanum											1																			
Gyrodinium spirale-type								1									1			1	1			1	1	1	1	3	1	2
Heterocapsa triquetra	1			1		1	1	1	1	1	1	1	1				1	1	1				1		1	1	1	1	1	1
Noctiluca scintillans																									1					
Noctilucoid sp.																														
Oxyphysis oxytoxoides																												1	1	1
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile										1			1			1	1		1			1			1			1	1	1
Prorocentrum micans																														
Prorocentrum sp.																														
Protoperidinioid sp.		1	2		1					3	1	2			1	2	1	1	2	2	2		1	2	2	3	2	4	5	3
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																												1	1	1

Table 74 cont'd

date	30-Aug			11-Sep			25-Sep			1-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates												
Alexandrium sp.									1			
Amphidinium sp.	1	1	1									
Ceratium divaricatum											1	
Ceratium furca	1	1	1	1	1		1	1	1			
Ceratium fusus	1	1				1	1					
Ceratium lineatum							1	1				
Ceratium pentagonum												
Ceratium sp.	2						1	1	2			
Cochlodinium polykrikoides	1			1	1	1	1	1	1			
Cochlodinium sp.		1							1			
Dinophysioid sp.	4	1	1	1		1	2	1	1			1
Diplopsalis sp.				1	1	1				1		
Gonyaulacoid sp.					1		3	1	1	1		
Gymnodinioid sp.	7	4	3	5	3	3	2	2	3	2	3	
Gymnodinium galatheanum												
Gyrodinium spirale-type	3	1		3	2	2		1				1
Heterocapsa triquetra	1	1	1	1	1	1						1
Noctiluca scintillans												
Noctilucoid sp.												
Oxyphysis oxytoxoides	1		1	1	1		1		1			
Oxyrrhis marina												
Oxytoxum sp.												
Polykrikos sp.												
Prorocentrum gracile	1	1	1	1	1	1	1	1	1			
Prorocentrum micans												
Prorocentrum sp.												
Protoperidinioid sp.	9	3	4	2	1	1	4	2	3			
Pyrocystis lunula												
Raphidophytes												
Heterosigma akashiwo				1	1	1						

Table 75 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Charlie's Place samples.

date	1-May			10-May			24-May			7-Jun			14-Jun			24-Jun			1-Jul			11-Jul			25-Jul			16-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum					1	1				1	1				1					1									1	
Dinobryon balticum																														
Ebria tripartita																														
Euglenoid	1																													
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	4	4	3	4	3	5	4	3	3	2	3	2	2	3	2	1	1	3	2	2	1	3	3	2	3	3	3	4	2	3
Zooplankton																														
Appendicularian																														
Ciliate	3	3	3	2	3	3	1	2		4	2	2	1	2	1	2	3	3	1	4		1	2	2	4	6	4	4	7	5
Copepod																1														
Nauplius																														
Pluteus																														
Rotifer																														
Tintinnid							1			2			1	1	1					1	1									
Zoea																														
other																														
Dominant Species/Group																														
name	ciliates	*Skeletonema costatum*	*Skeletonema costatum*	*Gymnodinium spp.*	*Gymnodinium spp.*	*Gymnodinium spp.*	*Gymnodinium spp.*	*Heterocapsa triquetra*	*Heterocapsa triquetra*	dinoflagellates	*Alexandrium catenella*	dinoflagellates	dinoflagellates	*Gymnodinium spp.*	dinoflagellates	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Bacteriastrum delicatulum*	*Bacteriastrum delicatulum*	*Skeletonema costatum*	gymnodinioid dinoflagellates	gymnodinioid dinoflagellates	gymnodinioid dinoflagellates	*Ceratium divaricatum*	*Prorocentrum gracile*	*Prorocentrum gracile*
count (cells/mL)	~15	~330	~160	~25	~40	~10	~30	~25	~15	~60	~23	~60	~20	~10	~6	~350	~800	1600	~900	~500	1200	~330	~210	~300	~40	~30	~20	~115	~580	~200
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	0	60	55	15	5	5	35	15	35	20	15	26	20	0	0	55	75	75	75	70	77	85	89	75	0	5	20	0	0	0
Dinoflagellates	30	20	25	70	70	65	50	70	60	65	80	70	60	65	50	35	20	20	20	15	20	10	5	20	65	55	55	75	80	75
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	10	15
Other Flagellates	15	5	5	5	5	10	5	5	5	5	3	2	5	10	30	2	1	2	1	1	1	2	2	2	5	5	5	3	1	1
Zooplankton	55	15	15	10	20	20	10	10	0	10	2	2	15	25	20	8	4	3	4	14	2	3	4	3	30	35	20	12	9	9
Biomass	1.5	2.5	3.0	1.5	2.0	1.0	2.0	2.5	1.5	2.5	2.0	2.5	1.5	1.0	1.0	2.0	2.0	2.5	3.0	3.0	3.5	3.0	3.0	3.0	2.0	2.0	2.0	4.0	3.5	3.5

Table 75 cont'd

date	30-Aug			11-Sep			25-Sep			1-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates												
Cryptomonads												
Dictyocha speculum				1	1						1	
Dinobryon balticum												
Ebria tripartita												
Euglenoid	1	1	1								1	
Phaeocystis pouchetii												
Radiolarian												
unid. Nanoflagellates	5	2	1	4	4	5	3	4	4	3	2	1
Zooplankton												
Appendicularian												
Ciliate	6	5	5	4	4	3	3	4	5	6	6	4
Copepod												
Nauplius							1	1				
Pluteus												
Rotifer							2		1			
Tintinnid							1					
Zoea												
other												
Dominant Species/Group												
name	euglenoid	euglenoid	*Ceratium furca*	*Prorocentrum gracile*	*Chaetoceros tenuissimus*	*Chaetoceros tenuissimus*	*Ceratium divaricatum*	*Ceratium divaricatum*	*Ceratium divaricatum*	*Thalassionema sp.*	*Ceratium trivaricatum*	ciliates
count (cells/mL)	1600	~400	~8	~610	~5000	~3500	~26	~15	~20	~85	~2	~10
% constituent	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	0	0	0	30	40	50	40	20	10	85	5	5
Dinoflagellates	55	60	65	53	50	40	53	70	80	5	40	50
Raphidophytes	0	0	0	5	3	3	0	0	0	0	0	0
Other Flagellates	25	25	15	10	5	5	2	2	2	1	20	1
Zooplankton	20	15	20	2	2	2	5	8	8	9	35	44
Biomass	4.0	2.5	2.5	3.5	3.5	3.0	3.0	2.0	2.5	2.5	1.5	1.0

Table 76 : Diatoms in Thorpe Point samples.

date	28-Feb			07-Mar			14-Mar			21-Mar			28-Mar			04-Apr			11-Apr			18-Apr			25-Apr			02-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.																														
Biddulphia sp.																														
Campylosira/Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus																														
Chaetoceros sp.				3	1	2	1	1	1		1								1	4	1	4	3	3	1	2	1			
Corethron hystrix																														
Coscinodiscus sp.																														
Cylindrotheca closterium																								1						
Dactylisolen sp.																														
Detonula pumila																														
Ditylum brightwellii																														
Eucampia zoodiacus																														
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus																														
Leptocylindrus minimus																														
Licmophora sp.																														
Melosira sp.																														
Navicula sp.							1									1		1					1		1					
Nitzschioid sp.		1	1	1		1																					1			
Pleurosigma/ Gyrosigma sp.																														
Rhizosolenia setigera																														
Rhizosolenia sp. (pointy)																														
Rhizosolenia sp. (blunt)																														
Rhizosolenia stolterfothii																														
Skeletonema costatum		1		1	1	1	1	1	1	1		1					1		1						1					1
Stephanopyxis sp.																														
Striatella sp.																														
Thalassionema sp.																														
Thalassiosira sp.		1	1	2	2	1	2	2	1	2	2	2	2	2	2	2	3	2	2	2	2	2	1	2						

Table 76 cont'd

date	09-May			16-May			23-May			30-May			06-Jun			13-Jun			20-Jun			27-Jun			04-Jul			11-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.																														
Biddulphia sp.																														
Campylosira/Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus																														
Chaetoceros sp.													1	1	1	5	6	5				6	3	3	6	8	6	2	3	5
Corethron hystrix									1																		1			
Coscinodiscus sp.																														
Cylindrotheca closterium												1																		
Dactylisolen sp.														1		1	1	1												
Detonula pumila																														
Ditylum brightwellii																									1		1			
Eucampia zoodiacus																														
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																		1								1				
Leptocylindrus danicus																														
Leptocylindrus minimus																														
Licmophora sp.																														
Melosira sp.																	1					1	1	1	1	1	1			
Navicula sp.																														
Nitzschioid sp.				1			1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Pleurosigma/ Gyrosigma sp.																														1
Rhizosolenia setigera																				1										
Rhizosolenia sp. (pointy)																														
Rhizosolenia sp. (blunt)														1											1	1	1			1
Rhizosolenia stolterfothii																														
Skeletonema costatum										1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Stephanopyxis sp.																														
Striatella sp.																														1
Thalassionema sp.				1																										
Thalassiosira sp.		1	1			1					1	1	2	3	2	2	3	3			2		1	2		2	2			1

Table 76 cont'd

date	18-Jul			31-Jul			07-Aug			14-Aug			21-Aug			28-Aug			04-Sep			11-Sep			18-Sep			25-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.							1																							
Amphiprora/ Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.																														
Biddulphia sp.					1																									
Campylosira/Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne							.																							
Chaetoceros convolutus																														
Chaetoceros sp.	1	2	1	2		2				1	1																			
Corethron hystrix																														
Coscinodiscus sp.																														
Cylindrotheca closterium																														
Dactylisolen sp.																														
Detonula pumila																														
Ditylum brightwellii																														
Eucampia zoodiacus																														
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus										1																				
Leptocylindrus minimus																									1					
Licmophora sp.																														
Melosira sp.																											1			
Navicula sp.											1																			
Nitzschioid sp.	1	1	1	1	1	1	1	1	1	1	1	1			1															
Pleurosigma/ Gyrosigma sp.					1								1	1																
Rhizosolenia setigera																														
Rhizosolenia sp. (pointy)																														
Rhizosolenia sp. (blunt)																														
Rhizosolenia stolterfothii																														
Skeletonema costatum	1			1	1	1	1	1	1	1	1	1	1																	
Stephanopyxis sp.																														
Striatella sp.																														
Thalassionema sp.	1					1																								
Thalassiosira sp.	1		1	1	1	1	1	1		1	2	1		1				1							1		1			

Table 76 cont'd

date	02-Oct			09-Oct			16-Oct			23-Oct			30-Oct			06-Nov			13-Nov			20-Nov			27-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																											
Achnanthes sp.																											
Amphiproral Tropidoneis																											
Asterionella japonica																											
Bacteriastrum sp.																											
Biddulphia sp.																											
Campylosiral Plagiogramma																											
Cerautalina sp.																											
Chaetoceros concavicorne																											
Chaetoceros convolutus																											
Chaetoceros sp.																											
Corethron hystrix																											
Coscinodiscus sp.																											
Cylindrotheca closterium																											
Dactylisolen sp.																											
Detonula pumila																											
Ditylum brightwellii																											
Eucampia zoodiacus																											
Grammatophora sp.																											
Hemialus sp.																											
Lauderia annulata																											
Leptocylindrus danicus																											
Leptocylindrus minimus																											
Licmophora sp.																											
Melosira sp.															1												
Navicula sp.																								1			
Nitzschioid sp.																											
Pleurosigma/ Gyrosigma sp.																											
Rhizosolenia setigera																											
Rhizosolenia sp. (pointy)																											
Rhizosolenia sp. (blunt)																											
Rhizosolenia stolterfothii																											
Skeletonema costatum	1	1				1	1																				
Stephanopyxis sp.																											
Striatella sp.																											
Thalassionema sp.																							1				
Thalassiosira sp.					1		1		1			1	1									1	1				

Table 77 : Dinoflagellates in Thorpe Point samples.

date	28-Feb			07-Mar			14-Mar			21-Mar			28-Mar			04-Apr			11-Apr			18-Apr			25-Apr			02-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																						1	1							
Amphidinium sp.																														
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium sp.																														
Cochlodinium polykrikoides																														
Dinophysioid sp.																														
Diplopsalis sp.																														
Gonyaulacoid sp.																														
Gymnodinioid sp.	1	1	1	1	2	1	2	1	1	2	1	1		1	2	3	2	1	1	2	1	4	4	5	3	4	2	1	1	1
Gymnodinium galatheanum																														
Gyrodinium spirale-type					1		1	1	1	1	1	1				1			1		1	2	1	2		1				
Heterocapsa triquetra																														
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides																														
Polykrikos sp.																								1						
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum sp.																														
Protoperidinioid sp.				1																	2			2					1	
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																									1					

Table 77 cont'd

date	09-May			16-May			23-May			30-May			06-Jun			13-Jun			20-Jun			27-Jun			04-Jul			11-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																					1		1			1				
Amphidinium sp.																														
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium sp.																														
Cochlodinium polykrikoides																														
Dinophysioid sp.																1		1												
Diplopsalis sp.																	1													
Gonyaulacoid sp.																														
Gymnodinioid sp.	2	1	1	2	3	2	2	2	1	2	2	1	3	5	2		3	4	3	7	2	3	5	4	2	4	3		1	3
Gymnodinium galatheanum																														
Gyrodinium spirale-type														1			1	1	1	2		2	1		1	1	2	1		1
Heterocapsa triquetra																														
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														1
Oxyphysis oxytoxoides																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum sp.																	1	1		1	1		1	1						
Protoperidinioid sp.	1				1	1	1						2	2		3	5	4		1		5	1			4	4		1	1
Pyrocystis lunula																					1									
Raphidophytes																														
Heterosigma akashiwo																														

Table 77 cont'd

date	18-Jul			31-Jul			07-Aug			14-Aug			21-Aug			28-Aug			04-Sep			11-Sep			18-Sep			25-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.							1									1	1	1	1			1								
Ceratium divericatum																														
Ceratium furca																			1	1	1	1							1	1
Ceratium fusus																				1										
Ceratium lineatum											1					1		1	1	1	1	1			1			1		
Ceratium pentagonum																														
Ceratium sp.																1			1	1										
Cochlodinium sp.																1	1													
Cochlodinium polykrikoides													1		1				1	1	1	1								
Dinophysioid sp.																1			2	3	1			1		1			1	
Diplopsalis sp.										1			1							1										
Gonyaulacoid sp.										1		1	1	1	1		1		1	1	1									
Gymnodinioid sp.	1	3	3	2	4	1	2	2	1	6	7	4	5	3	2	7	6	6	4	3	2	1	2	3	3	1	3	1	5	4
Gymnodinium galatheanum																														
Gyrodinium spirale-type	1	1		1		1	1			2	1	1						2	2	2	1	1						1	1	1
Heterocapsa triquetra										1				1		1			1	1		1	1							
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides													1						1	1	1									
Polykrikos sp.							1			1																				
Prorocentrum gracile																1	1	1	1	1	1	1			1			1		
Prorocentrum micans																														
Prorocentrum sp.												1																		
Protoperidinioid sp.	1	2			1	1	2	1	1	6	6	4				3		4	2	1						1	1			
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo										1	1	1	1	1	1	1	1	1			1									

Table 77 cont'd

date	02-Oct			09-Oct			16-Oct			23-Oct			30-Oct			06-Nov			13-Nov			20-Nov			27-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																											
Alexandrium sp.																											
Amphidinium sp.								1																	1		
Ceratium divericatum																											
Ceratium furca							1																				
Ceratium fusus																								1			
Ceratium lineatum	1																										
Ceratium pentagonum																											
Ceratium sp.	1																										
Cochlodinium sp.																											
Cochlodinium polykrikoides																											
Dinophysioid sp.						1																					
Diplopsalis sp.																											
Gonyaulacoid sp.										1																	
Gymnodinioid sp.	3	4	1		4	4	2	4	2	5	2	3	1		1	3	2		3	2	2	3	3	3	2	1	2
Gymnodinium galatheanum																											
Gyrodinium spirale-type	1				1		2							1			1										
Heterocapsa triquetra																	1										
Noctiluca scintillans																											
Noctilucoid sp.																											
Oxyrrhis marina																											
Oxyphysis oxytoxoides																											
Polykrikos sp.																											
Prorocentrum gracile							1																	1			
Prorocentrum micans																											
Prorocentrum sp.																											
Protoperidinioid sp.	1							1																			
Pyrocystis lunula																											
Raphidophytes																											
Heterosigma akashiwo						1																					

Table 78: Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Thorpe Point samples.

date	28-Feb			07-Mar			14-Mar			21-Mar			28-Mar			04-Apr			11-Apr			18-Apr			25-Apr			02-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																							1							
Dictyocha speculum																			1						1			1	1	
Dinobryon balticum																														
Ebria tripartita																			1											
Euglenoid																														
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	3	4	3	4	5	5	5	5	5	6	4	3	5	4	5	3	5	3	5	3	3	5	5	4	5	5	3	4	5	5
Zooplankton																														
Appendicularian																														
Ciliate	2	1		2	2	3	1	1		2	3	1	1	2	1	2	3	1	3	5	2	4	4	6	2	2	2	4	3	2
Copepod																1										1				
Nauplius																														
Pluteus																														
Rotifer																														
Tintinnid																1								1						
Zoea																														
other																														
Dominant Species/Group																														
name	ciliates	diatoms	diatoms	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Chaetoceros debilis*	*Chaetoceros debilis*	*Chaetoceros debilis*	*Heterosigma akashiwo?*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Dictyocha speculum*	ciliates	ciliates
count (cells/mL)	~5	~15	~5	~160	~40	~20	~200	~650	~40	~500	~120	~60	~100	~50	~40	~600	1800	~100	~280	~600	~450	~250	~350	~2300	~140	~80	~10	~38	~20	~10
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	0	70	50	70	45	50	75	85	75	85	80	75	85	75	70	60	75	80	85	85	90	70	75	85	20	45	40	0	0	10
Dinoflagellates	30	15	35	15	25	10	15	10	20	10	12	10	0	5	15	25	15	10	5	2	4	15	10	9	20	35	30	5	7	5
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0	0	0	0	0
Other Flagellates	20	10	15	3	5	5	5	2	5	2	3	5	5	5	5	2	2	5	3	1	1	5	5	1	30	10	5	65	30	10
Zooplankton	50	5	0	12	25	35	5	3	0	3	5	10	10	15	10	13	8	5	7	12	5	10	10	5	5	10	25	30	63	75
Biomass	1.5	1.5	1.5	3.0	2.0	2.0	3.0	3.5	2.0	3.5	2.5	2.0	2.5	2.0	2.0	3.5	4.0	2.5	3.0	3.5	3.5	3.0	3.0	4.0	2.0	2.0	1.5	2.0	2.0	1.5

Table 78 cont'd

date	09-May			16-May			23-May			30-May			06-Jun			13-Jun			20-Jun			27-Jun			04-Jul			11-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum	1	1	1	1	1	1	1	1	1	1	1	1	1			1														
Dinobryon balticum																														
Ebria tripartita													1			1														
Euglenoid																														
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	4	4	3	5	3	2	4	5	4	3	3	3	1	1	3	3	4	3	3	7	6	4	4	5	2	4	4	2	3	2
Zooplankton																														
Appendicularian																						1						1		
Ciliate	3	3	1	3	4	2	2	2	2	1	2	1	1	1		1	2	1	1	6	3	5	6	3	1	2	3	1	1	2
Copepod																														
Nauplius														1											1					
Pluteus																														
Rotifer																														
Tintinnid														1		1	1	1			1	2					1			
Zoea																														
other														1																
Dominant Species/Group																														
name	*Dictyocha speculum*	ciliates	*Dictyocha speculum*	*Dictyocha speculum*	*Dictyocha speculum*	dinoflagellates	*Dictyocha speculum*	ciliates	*Dictyocha speculum*	*Gymnodinium spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	dinoflagellates	*Prorocentrum minimum*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Pseudonitzschia sp.*	*Skeletonema costatum*
count (cells/mL)	~84	~20	~8	~450	~8	~5	~12	~20	~5	~10	~80	~50	1600	3600	~400	2000	2000	10000	~30	~30	~50	1000	~580	~700	1500	2000	7700	1000	~600	5500
% constituent	100	100	100	100	100	110	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	0	5	5	10	0	10	10	0	5	30	55	65	93	90	95	75	80	85	60	25	25	55	55	75	93	89	92	95	93	90
Dinoflagellates	20	5	5	10	30	30	30	25	10	40	15	10	5	7	4	17	15	10	35	30	35	20	20	10	4	7	5	2	5	7
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	50	25	60	70	40	40	45	30	55	20	15	15	1	1	1	4	1	1	2	20	30	5	5	5	1	1	1	1	1	1
Zooplankton	30	65	30	10	30	30	15	45	30	10	15	10	1	2	0	4	4	4	3	25	10	20	20	10	2	3	2	2	1	2
Biomass	2.5	2.0	1.0	3.0	1.5	1.0	1.5	1.5	1.0	1.0	2.0	1.5	3.0	4.0	3.0	3.0	3.0	4.0	2.0	2.5	2.0	3.5	3.0	2.0	3.5	3.5	4.0	3.5	3.5	4.5

Table 78 cont'd

date	18-Jul			31-Jul			07-Aug			14-Aug			21-Aug			28-Aug			04-Sep			11-Sep			18-Sep			25-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads														1	1													1	1	
Dictyocha speculum																														
Dinobryon balticum													1																	
Ebria tripartita																1			1											
Euglenoid		1																												
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	3	4	2	4	5	5	3	3	3	3	3	5	5	3	3	1	3	2	4	3	3	5	4	3	4	4	3	3	1	2
Zooplankton																														
Appendicularian																														
Ciliate		2	1	3	3	1	1	1		6	7	5	3	1	2	3	2	6	5	4	1	5	1		4	7	4	5	2	4
Copepod				1										1									1						1	
Nauplius																														
Pluteus										1	1	1	1																	
Rotifer																											1			
Tintinnid							1			1	2	3				1			2	1										
Zoea																			1											
other																														
Dominant Species/Group																														
name	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Skeletonema costatum*	*Pseudonitzschia sp.*	*Skeletonema costatum*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Heterosigma akashiwo*	*Gonyaulax digitale*	*Heterosigma akashiwo*	*Heterosigma akashiwo*	*Heterosigma akashiwo*	*Heterosigma akashiwo*	*Cochlodinium polykrikoide*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Ceratium lineatum*	dinoflagellates	dinoflagellates	ciliates	ciliates	ciliates	ciliates	dinoflagellates	ciliates
count (cells/mL)	~830	1970	1980	8300	10000	3900	1600	1000	~30	~800	2200	~340	~60	~7	~55	3,300	~280	~440	~200	~35	~10	~7	~10	~15	~50	~50	~20	~30	~30	~45
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	90	87	90	93	91	95	75	80	85	65	74	70	10	30	1	0	0	1	0	0	0	10	0	0	10	0	5	0	0	0
Dinoflagellates	7	8	6	4	6	3	21	16	10	28	15	15	60	45	34	45	50	45	95	95	97	93	65	75	25	15	20	30	55	30
Raphidophytes	0	0	0	0	0	0	0	0	0	1	1	0	25	15	60	50	45	45	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	3	3	2	1	1	1	2	2	5	1	1	1	3	8	3	2	3	1	1	1	2	2	15	25	5	10	5	20	15	5
Zooplankton	0	2	2	2	2	1	2	2	0	5	9	14	2	2	2	3	2	8	4	4	1	5	20	0	60	75	70	50	30	65
Biomass	3.0	4.0	4.0	4.5	4.5	4.0	3.0	3.0	1.5	3.0	3.5	3.0	2.0	2.0	1.5	4.0	3.0	3.0	3.5	3.0	2.0	1.5	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5

Table 78 cont'd

date	02-Oct			09-Oct			16-Oct			23-Oct			30-Oct			06-Nov			13-Nov			20-Nov			27-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																											
Cryptomonads																											
Dictyocha speculum	1	1	1	1			1	1	1	1	1	1	1			1			1						1		
Dinobryon balticum																											
Ebria tripartita										1																	
Euglenoid										1	1	1															
Phaeocystis pouchetii																											
Radiolarian																											
unid. Nanoflagellates	4	3	2	4	4	4	6	2	4	5	4	4	4	4	3	5	4	3	3	2	3	2	2	3	3	2	3
Zooplankton																											
Appendicularian																											
Ciliate	7	5	2	2	4	5	2	3	5	3	2	1	5	3		4	1	1	5	3	4	1	3		2	2	
Copepod																											
Nauplius																											
Pluteus																											
Rotifer																											
Tintinnid																											
Zoea																											
other																											
Dominant Species/Group																											
name	*Dictyocha speculum*	ciliates	ciliates	*Dictyocha speculum*	dinoflagellates	ciliates	*Dictyocha speculum*	dinoflagellates	*Dictyocha speculum*	*Dictyocha speculum*	*Dictyocha speculum*	*Dictyocha speculum*	ciliates	ciliates	dinoflagellates	*Dictyocha speculum*	dinoflagellates	ciliates	ciliates	ciliates	ciliates	gymnodinioid dinoflagella	ciliates	*Prorocentrum gracile*	ciliates	ciliates	dinoflagellates
count (cells/mL)	~24	~60	~10	~4	~10	~15	~10	~6	~50	~25	~10	~6	~10	~5	~1	~6	~5	~2	~15	~3	~6	~5	~5	~32	~5	~2	~2
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	5	2	0	0	25	5	10	0	2	0	0	5	10	0	10	0	0	0	0	0	0	30	30	2	0	0	0
Dinoflagellates	20	3	5	0	35	35	30	50	8	10	5	10	10	15	40	30	60	0	15	30	20	60	9	97	20	10	80
Raphidophytes	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	35	10	20	70	20	14	30	10	70	80	90	80	10	10	50	50	20	50	15	5	5	1	1	1	20	5	20
Zooplankton	40	85	75	30	20	45	30	40	20	10	5	5	70	75	0	20	20	50	70	65	75	9	60	0	60	85	0
Biomass	2.5	1.5	1.0	1.0	1.5	1.5	1.5	1.0	2.5	1.5	1.5	1.0	1.5	1.0	1.0	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	1.0	1.0	1.0

Table 79 : Diatoms in Koskimo Bay samples.

date	27-Feb			06-Mar			13-Mar			20-Mar			27-Mar			03-Apr			10-Apr			17-Apr			24-Apr			01-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.																									1					
Biddulphia sp.																														
Campylosira/Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus																							1	1						
Chaetoceros sp.	1															1			1	1		3	3	5	8	7	5	4	4	5
Corethron hystrix																														
Coscinodiscus sp.																				1						1				
Cylindrotheca closterium	1																							1						1
Dactylisolen sp.																														
Detonula pumila																														
Ditylum brightwellii																														
Eucampia zoodiacus																									1	1		1		
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus																						1	1		1	1	1	1	1	1
Leptocylindrus minimus																														
Licmophora sp.																														
Melosira sp.																														
Navicula sp.																1				1					2	1	1			
Nitzschioid sp.																						1		1	2	2	1	1	1	1
Pleurosigma/ Gyrosigma sp.																														
Rhizosolenia setigera																														
Rhizosolenia sp. (pointy)																								1		1	1	1		1
Rhizosolenia sp. (blunt)																											1	1		
Rhizosolenia stolterfothii																									1	1				
Skeletonema costatum						1	1	1	1					1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Stephanopyxis sp.																														
Thalassionema sp.																										1				1
Thalassiosira sp.				1			2	2	2	1	1	1	2	2		2	1	2	2	2	2	2	2	2	2	2	3	3	2	3

Table 79 cont'd

date	08-May			15-May			23-May			30-May			05-Jun			12-Jun			19-Jun			26-Jun			04-Jul			10-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																														
Asterionella japonica																									1					
Bacteriastrum sp.																										1				
Biddulphia sp.																														
Campylosira/Plagiogramma																														
Cerautalina sp.																													1	
Chaetoceros concavicorne																									1	1	1		1	1
Chaetoceros convolutus				1								1	2	1	1	2									7	8	7	4	3	4
Chaetoceros sp.													1																	
Corethron hystrix																									1		1			
Coscinodiscus sp.																														
Cylindrotheca closterium																														
Dactyliosolen sp.																														
Detonula pumila																														
Ditylum brightwellii																									1	1	1	1		
Eucampia zoodiacus																														
Grammatophora sp.																														
Hemialus sp.																									1		1			
Lauderia annulata																										1	1	1		
Leptocylindrus danicus										1																				
Leptocylindrus minimus																			1											
Licmophora sp.																														
Melosira sp.																						1			1	2	1			
Navicula sp.					1			1	1				1	1		1				1					1	1	1			
Nitzschioid sp.																									1	1	1			
Pleurosigma/ Gyrosigma sp.																									1			1	1	
Rhizosolenia setigera																												1		
Rhizosolenia sp. (pointy)					1																							1		
Rhizosolenia sp. (blunt)																									1	1	1	1		
Rhizosolenia stolterfothii					1	1	1		1	1	1	1	1	1	1	1	1	1			1		1		1	1				
Skeletonema costatum																														
Stephanopyxis sp.					1																									
Thalassionema sp.																														
Thalassiosira sp.		1			1	1				2	2	2	1	2	1	2	2	1	1							1	1		1	

Table 79 cont'd

date	18-Jul			21-Jul			01-Aug			05-Aug			13-Aug			20-Aug			28-Aug			03-Sep			12-Sep			17-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.			1																											
Amphiprora/ Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.																														
Biddulphia sp.																														
Campylosira/Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus						1																								
Chaetoceros sp.	5	6	2	5	4	5	2	3										1												
Corethron hystrix								1																						
Coscinodiscus sp.								1									1						1							
Cylindrotheca closterium					1																									
Dactylisolen sp.																														
Detonula pumila					1				1						1															
Ditylum brightwellii																														
Eucampia zoodiacus	1				1	1																								
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata	1									1																				
Leptocylindrus danicus							1																							
Leptocylindrus minimus																												1		
Licmophora sp.												1	1																	
Melosira sp.												1																		
Navicula sp.												1																		
Nitzschioid sp.	1	1	1	1	1			1			1			1	1															
Pleurosigma/ Gyrosigma sp.																														
Rhizosolenia setigera																														
Rhizosolenia sp. (pointy)										1																				
Rhizosolenia sp. (blunt)		1						1																						
Rhizosolenia stolterfothii					1																									
Skeletonema costatum	1	1	1	1	1	1		1																				1		
Stephanopyxis sp.																														
Thalassionema sp.		1		1										1																
Thalassiosira sp.	1	2	1	1	1	1	1			1	1			1	1		1				1	1			1					

Table 79 cont'd

date	24-Sep			07-Oct			15-Oct			22-Oct			13-Nov			20-Nov			27-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																					
Achnanthes sp.																					
Amphiprora/ Tropidoneis																					
Asterionella japonica																					
Bacteriastrum sp.																					
Biddulphia sp.																					
Campylosira/Plagiogramma																					
Cerautalina sp.	1	1																			
Chaetoceros concavicorne																					
Chaetoceros convolutus																					
Chaetoceros sp.	2	3	2									1									
Corethron hystrix																					
Coscinodiscus sp.																					
Cylindrotheca closterium																					
Dactyliosolen sp.			1																		
Detonula pumila																					
Ditylum brightwellii																					
Eucampia zoodiacus																					
Grammatophora sp.																					
Hemialus sp.																					
Lauderia annulata																					
Leptocylindrus danicus		1	1																		
Leptocylindrus minimus																					
Licmophora sp.																					
Melosira sp.																					
Navicula sp.	1									1											
Nitzschioid sp.	1	1	1				1			1											
Pleurosigma/ Gyrosigma sp.																					
Rhizosolenia setigera																					
Rhizosolenia sp. (pointy)																					
Rhizosolenia sp. (blunt)																					
Rhizosolenia stolterfothii																					
Skeletonema costatum		1	1																		
Stephanopyxis sp.																					
Thalassionema sp.		1	1																		
Thalassiosira sp.	2	1	2																		1

Table 80 : Dinoflagellates in Koskimo Bay samples.

date	27-Feb			06-Mar			13-Mar			20-Mar			27-Mar			03-Apr			10-Apr			17-Apr			24-Apr			01-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.																											1			
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.																														
Dinophysioid sp.																														
Diplopsalis sp.	1																													
Gonyaulacoid sp.																	1								1					
Gymnodinioid sp.	2	2	1	1	1	2	1	1	1	2	1			2	1	3	2	1	1	1		2	2	3	5	4	3	3	2	1
Gymnodinium galatheanum																														
Gyrodinium spirale-type																			1	1					2	3	3			
Heterocapsa triquetra																						1						1		
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum minimum																														
Prorocentrum sp.																														
Protoperidinioid sp.							1																		3	3	5	1		1
Pyrocystis lunula																			1											
Raphidophytes																														
Heterosigma akashiwo																														

Table 80 cont'd

date	08-May			15-May			23-May			30-May			05-Jun			12-Jun			19-Jun			26-Jun			04-Jul			10-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.										1																				
Amphidinium sp.																								1						
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium sp.																														1
Cochlodinium polykrikoides																									1					
Cochlodinium sp.																														
Dinophysioid sp.											1																			
Diplopsalis sp.																														
Gonyaulacoid sp.											1																			
Gymnodinioid sp.				3	1	2	1	1	2	2	3	2	3	2	1	3	2	1	2	1	1	3	2	2	6	4	4		2	1
Gymnodinium galatheanum																														
Gyrodinium spirale-type				1									1		1	1							1		2			1		
Heterocapsa triquetra					1	1																						1		
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum minimum																														
Prorocentrum sp.																														
Protoperidinioid sp.					1	1					1	1		1		2							1	1	5	3	3	2		
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 80 cont'd

date	18-Jul			21-Jul			01-Aug			05-Aug			13-Aug			20-Aug			28-Aug			03-Sep			12-Sep			17-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																1														
Amphidinium sp.										1																				
Ceratium furca																			1	1		1	1	1	1	1				
Ceratium fusus																	1		1				1	1	1	1	1	1		
Ceratium lineatum										1	1		1	1		1	1		1	1	1	1	1	1	1	1	1	1		
Ceratium sp.													1			1	1		1	1	1	1	2	2	2	1	1			
Cochlodinium polykrikoides													1						1					1	1	1				
Cochlodinium sp.																														
Dinophysioid sp.											1			1		1	1	1	3	1		1	1		1		1			
Diplopsalis sp.																1	1	1	1			1								
Gonyaulacoid sp.										1	1	1	1	1	1	1	1	1			1	1	1	1		1	1	1		1
Gymnodinioid sp.	2	4	1	1	2	1	3	2	1	3	3	3	5	8	7	3	5		7	7	3		3		4	4	2			
Gymnodinium galatheanum																														
Gyrodinium spirale-type	2				1			1					1	2				1				1			1	1				
Heterocapsa triquetra										1			1	1		1			1											
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides																			1				1	1			1			
Polykrikos sp.														1								1	1							
Prorocentrum gracile										1			1			1	1		1	1	1				1	1	1	1		
Prorocentrum micans																									1					
Prorocentrum minimum																											1			
Prorocentrum sp.																														
Protoperidinioid sp.	1				1			2		2	2		2	3	4	2	2	2	4	3	1	2	4	2	1				1	
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo													1	1	1	1			1	1	1	1	1	1						

Table 80 cont'd

date	24-Sep			07-Oct			15-Oct			22-Oct			13-Nov			20-Nov			27-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																					
Alexandrium sp.																					
Amphidinium sp.																					
Ceratium furca	1	1	1	1			1			1	1	1	1								
Ceratium fusus																					
Ceratium lineatum	1	1	1	1									1			1		1			
Ceratium sp.	2	2	1	2			1	1	1	1	1		1	1		1			1		
Cochlodinium polykrikoides	1	1	1																		
Cochlodinium sp.																					
Dinophysioid sp.	1					1															
Diplopsalis sp.																					
Gonyaulacoid sp.	1	1	1	1					1								1		1		
Gymnodinioid sp.	7	6	6	1		3	3	1	2	2	3	1	3	1	1	5	2	4	3	1	2
Gymnodinium galatheanum																					
Gyrodinium spirale-type	2	2	2							1	1								1		1
Heterocapsa triquetra	1	1																			
Noctiluca scintillans																					
Noctilucoid sp.																					
Oxyrrhis marina																					
Oxyphysis oxytoxoides																					
Polykrikos sp.																					
Prorocentrum gracile	1	1	1																		
Prorocentrum micans	1	1	1																		
Prorocentrum minimum																					
Prorocentrum sp.																					
Protoperidinioid sp.	6	5	3						1								1				
Pyrocystis lunula																					
Raphidophytes																					
Heterosigma akashiwo			1	1																	

Table 81 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Koskimo Bay samples.

date	27-Feb			06-Mar			13-Mar			20-Mar			27-Mar			03-Apr			10-Apr			17-Apr			24-Apr			01-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																						1								
Dictyocha speculum																								1						
Dinobryon balticum																														
Ebria tripartita																				1										
Euglenoid										1		1	1																	
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	4	4	3	5	5	4	4	5	4	6	5	4	6	4	6	4	5	5	4	2	3	3	3	5	3	3	2	3	4	3
Zooplankton																														
Appendicularian																														
Ciliate		1	2	2	1	2				3	3	1	1	1		2	1	1	3	2	1	3	2	2	6	5	3	3	2	1
Copepod																														
Nauplius													1														1			
Pluteus																											1			
Rotifer																														
Tintinnid																							1		2	1	1	1		
Zoea																														
other																												1		
Dominant Species/Group																														
name	dinoflagellates	dinoflagellates	ciliates	ciliates	ciliates	Gymnodinium spp.	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	ciliates	ciliates	*Thalassiosira sp.*	*Thalassiosira spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*
count (cells/mL)	~5	~2	~3	~8	~3	~2	~25	~15	~40	~30	~15	~5	~30	~60	~10	~20	~12	~6	~750	~450	~200	4000	2500	2100	4400	2800	4400	~840	~610	~670
% constituent	100	100	100	100	90	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	30	0	0	10	0	20	60	70	80	5	30	50	70	70	60	45	60	65	90	90	95	82	88	85	80	80	80	80	91	94
Dinoflagellates	55	45	25	10	15	30	30	15	10	30	10	0	0	15	20	30	30	15	2	2	0	8	5	10	9	10	13	15	5	3
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	15	25	20	10	30	25	10	15	10	10	10	20	10	5	20	10	5	10	2	2	2	3	2	2	1	1	1	1	1	1
Zooplankton	0	30	55	70	45	25	0	0	0	55	50	30	20	10	0	15	5	10	6	6	3	7	5	3	10	9	6	4	3	2
Biomass	1.5	1.0	1.0	1.0	1.0	1.0	2.0	1.5	2.0	1.5	1.0	1.0	1.5	2.0	1.0	2.0	2.0	1.0	3.0	3.0	3.0	4.0	3.5	3.5	3.5	3.5	3.5	3.0	3.0	3.0

Table 81 cont'd

date	08-May			15-May			23-May			30-May			05-Jun			12-Jun			19-Jun			26-Jun			04-Jul			10-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum	1	1		1	1	1	1	1	1		1	1	1			1	1			1										
Dinobryon balticum																1					1		1				1			
Ebria tripartita					1											1				1			1							
Euglenoid																														
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	4	4	2	5	5	3	4	3	4	3	3	2	3	2	2	4	3	2	4	4	3	3	4	4	1	3	3	2	2	2
Zooplankton																														
Appendicularian																														
Ciliate	1	1	1	3	5	2	3	2	3	3	5	3	3	2		6	3		1	3	3		3	3	3	5	3			1
Copepod																	1									1				
Nauplius																														
Pluteus																														
Rotifer																							1							1
Tintinnid																														
Zoea																														
other																														
Dominant Species/Group																														
name	*Dictyocha speculum*	nothing dominant	ciliates	*Dictyocha speculum*	*Skeletonema costatum*	*Skeletonema costatum*	*Dictyocha speculum*	*Dictyocha speculum*	ciliates	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Thalassiosira spp.*	*Skeletonema costatum*	diatoms	ciliates	*Skeletonema costatum*	gymnodinoid dinoflagellates	ciliates	*Katodinium rotundatum*	*Chaetoceros constrictus*	*Chaetoceros constrictus*	*Chaetoceros constrictus*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*
count (cells/mL)	~3		~2	~80	~100	~50	~17	~12	~10	3,400	1,600	1,200	5300	1200	1100	~150	~50	~60	~6	~15	~10	~3	~10	~170	1200	1000	~800	1000	~200	~400
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	0	20	0	5	50	50	10	10	10	80	65	80	95	93	95	55	73	80	55	10	30	20	5	0	75	80	87	90	85	90
Dinoflagellates	0	0	0	25	10	25	20	10	20	10	18	10	3	3	4	5	20	15	15	10	10	50	35	45	15	10	8	8	13	5
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	85	60	60	30	15	10	45	40	30	2	7	3	1	1	1	5	2	5	25	30	30	30	20	30	1	1	1	2	2	2
Zooplankton	15	20	40	40	25	15	25	40	40	8	10	7	1	3	0	35	5	0	5	50	30	0	40	25	9	9	4	0	0	3
Biomass	1.0	1.0	1.0	2.0	2.0	1.5	1.5	1.0	1.0	3.5	3.0	3.0	4.0	3.0	3.0	2.5	2.0	1.5	1.0	1.0	1.0	1.0	1.5	1.5	3.5	3.0	3.0	3.0	2.5	2.5

Table 81 cont'd

date	18-Jul			21-Jul			01-Aug			05-Aug			13-Aug			20-Aug			28-Aug			03-Sep			12-Sep			17-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads															1								1			1				
Dictyocha speculum	1						1																							
Dinobryon balticum																1			1											
Ebria tripartita		1																				1			1					
Euglenoid							1																							
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	4	3	2	3	2	3	3	3	1	3	2	3	4	4	3	5	3	2	2	3	2	3	3	3	2	2	1	1	1	1
Zooplankton																														
Appendicularian																														
Ciliate	3	2	2	2	1	1	1	1		2	2	1	5	6	5	1	3	1	1	3		4	6	1	2	2	1	1		
Copepod													1						1											
Nauplius																														
Pluteus																	1													
Rotifer										1																1	1			
Tintinnid	1						1				1		1		1		1		2											
Zoea															1											1				
other	1																													
Dominant Species/Group																														
name	*Chaetoceros debilis*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Lauderia annulata*	dinoflagellates	dinoflagellates	dinoflagellates	*Gonyaulax digitale*	*Gonyaulax digitale*	*Gonyaulax digitale*	*Gonyaulax digitale*	*Gonyaulax digitale*	*Gonyaulax digitale*	*Ceratium divericatum*	*Ceratium divericatum*	*Ceratium spp.*	*Ceratium divericatum*	*Ceratium divericatum*	*Ceratium divericatum*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Skeletonema costatum*	*Protopendidium sp.*	*Gonyaulax digitale*
count (cells/mL)	2700	~300	~30	~40	~30	~50	~50	~190	~2	~30	~12	~20	~30	~60	~60	~150	~150	~30	~140	~15	~3	~45	~30	~6	~90	~25	~20	~15	~1	~1
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	98	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	80	85	60	93	90	92	78	88	50	20	25	30	1	5	20	0	3	10	0	0	10	1	1	0	2	0	0	22	0	0
Dinoflagellates	14	10	5	2	6	3	10	10	47	65	55	60	80	75	70	91	90	80	76	80	70	93	85	97	90	80	95	75	90	90
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	20	15	10	0	0	0	0	0	0	0	0	0
Other Flagellates	1	3	10	2	2	3	10	1	3	5	5	5	1	1	1	2	1	5	2	2	10	1	3	1	3	10	1	1	10	10
Zooplankton	5	2	25	3	2	2	2	1	0	10	15	5	15	19	9	2	6	5	2	3	0	5	11	2	5	10	4	2	0	0
Biomass	4.0	3.0	1.5	2.5	2.5	2.0	1.5	2.5	1.0	1.5	1.0	1.0	2.5	2.5	2.5	3.0	2.5	2.0	4.0	3.0	1.5	3.0	3.0	2.0	3.0	2.0	2.0	1.0	1.0	1.0

Table 81 cont'd

date	24-Sep			07-Oct			15-Oct			22-Oct			13-Nov			20-Nov			27-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																					
Cryptomonads																					
Dictyocha speculum	1	1		1	1	1					1	1	1								
Dinobryon balticum																					
Ebria tripartita				1																	
Euglenoid	1																				
Phaeocystis pouchetii																					
Radiolarian																					
unid. Nanoflagellates	5	2	4	4	3	3	3	3	4	3	3	3	2	1	1	2	4	4	3	2	2
Zooplankton																					
Appendicularian																					
Ciliate	8	5	3		2		1			3	1	1	2			1		3	2		
Copepod																					
Nauplius																					
Pluteus																					
Rotifer																					
Tintinnid		1															1				
Zoea																					
other																					
Dominant Species/Group																					
name	*Ceratium divaricatum*	*Gonyaulax digitale*	*Gonyaulax digitale*	*Ceratium divaricatum*	*Dictyocha speculum*	dinoflagellates	*Ceratium divaricatum*	*Ceratium divaricatum*	*Ceratium divaricatum*	*Ceratium divaricatum*	*Ceratium divaricatum*	*Ceratium furca*	*Ceratium divaricatum*	*Ceratium divaricatum*	gymnodinioid dinoflagellates	*Ceratium divaricatum*	dinoflagellates	dinoflagellates	*Ceratium divaricatum*	gymnodinioid dinoflagellates	*Thalassiosira sp*
count (cells/mL)	~24	~40	~15	~7	~5	~5	~3	~3	~2	~6	~3	~2	~4	~1	~1	~2	~10	~15	~1	~1	~1
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	20	20	30	0	0	0	2	0	0	3	0	30	0	0	0	0	0	0	0	0	48
Dinoflagellates	65	70	65	80	0	85	90	95	95	85	90	50	90	99	95	97	90	60	70	50	47
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	3	2	2	20	60	15	5	5	5	2	5	10	5	1	5	1	2	2	5	50	5
Zooplankton	12	8	3	0	40	0	3	0	0	10	5	10	5	0	0	2	8	38	25	0	0
Biomass	3.5	3.0	2.5	3.0	1.0	1.0	1.5	1.5	1.0	2.0	1.5	1.5	1.5	1.0	1.0	1.5	1.5	1.5	1.5	1.0	1.0

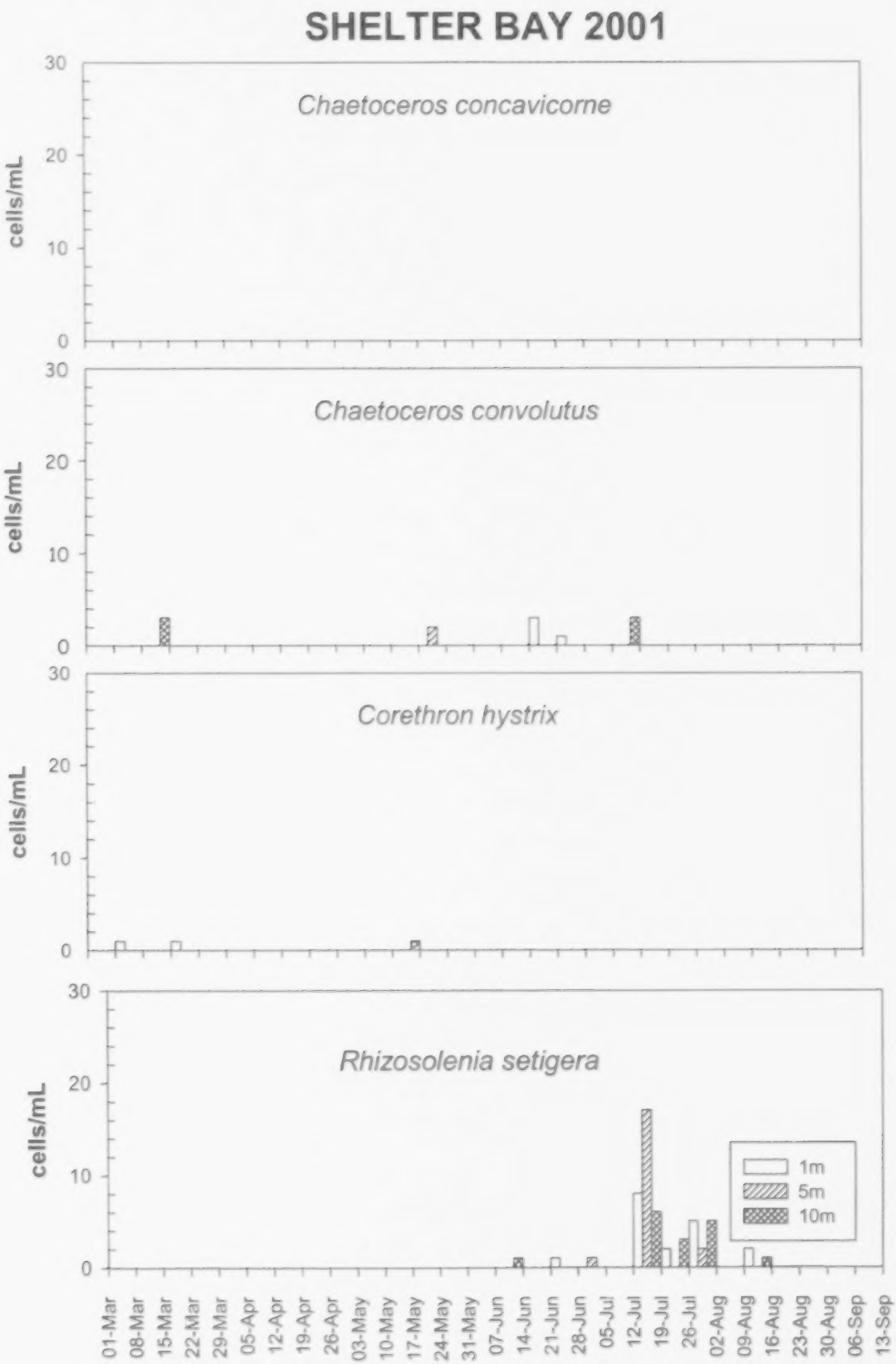

Figure 2: Harmful phytoplankton species in Shelter Bay samples.

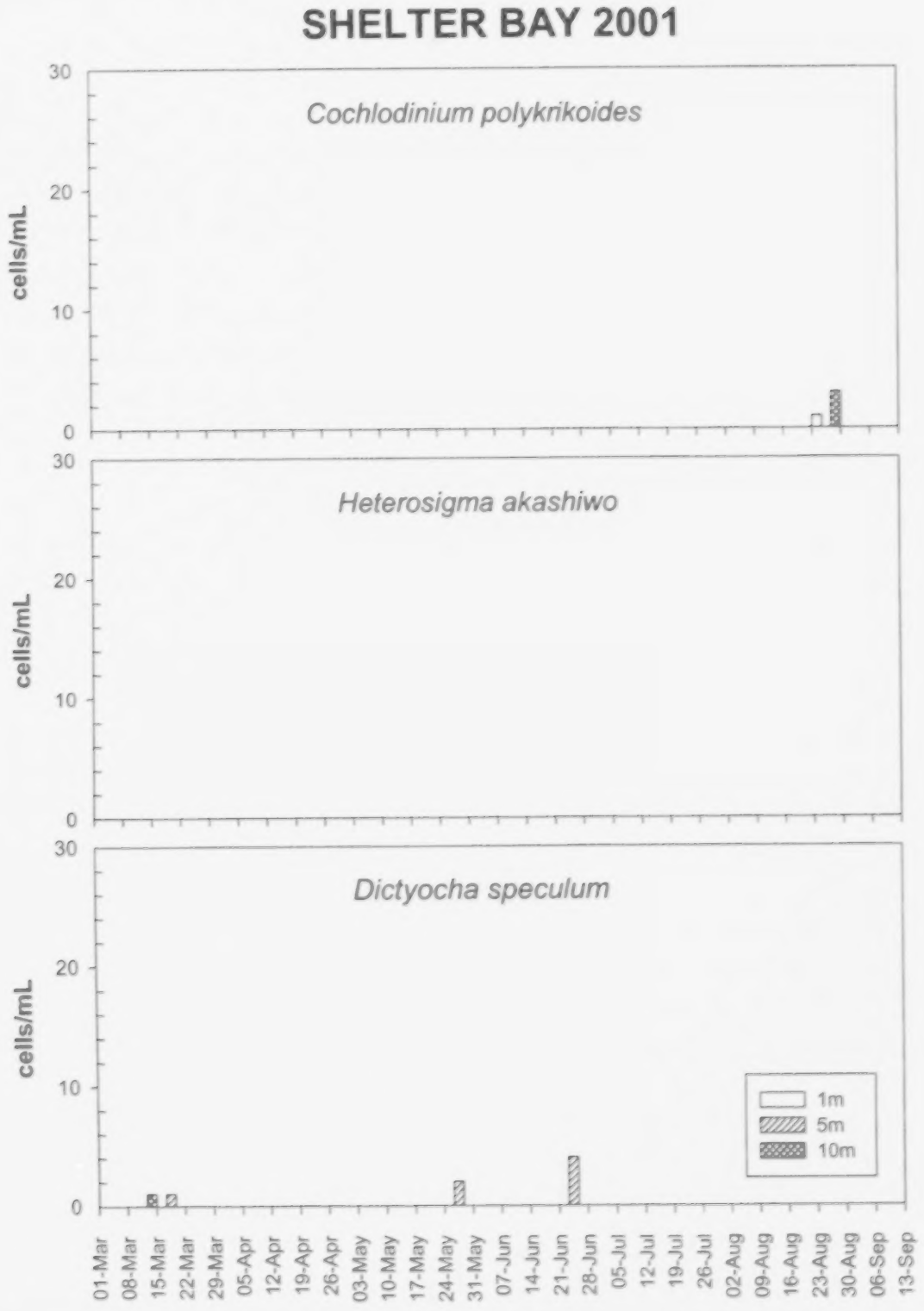

Figure 3: Harmful phytoplankton species in Shelter Bay samples.

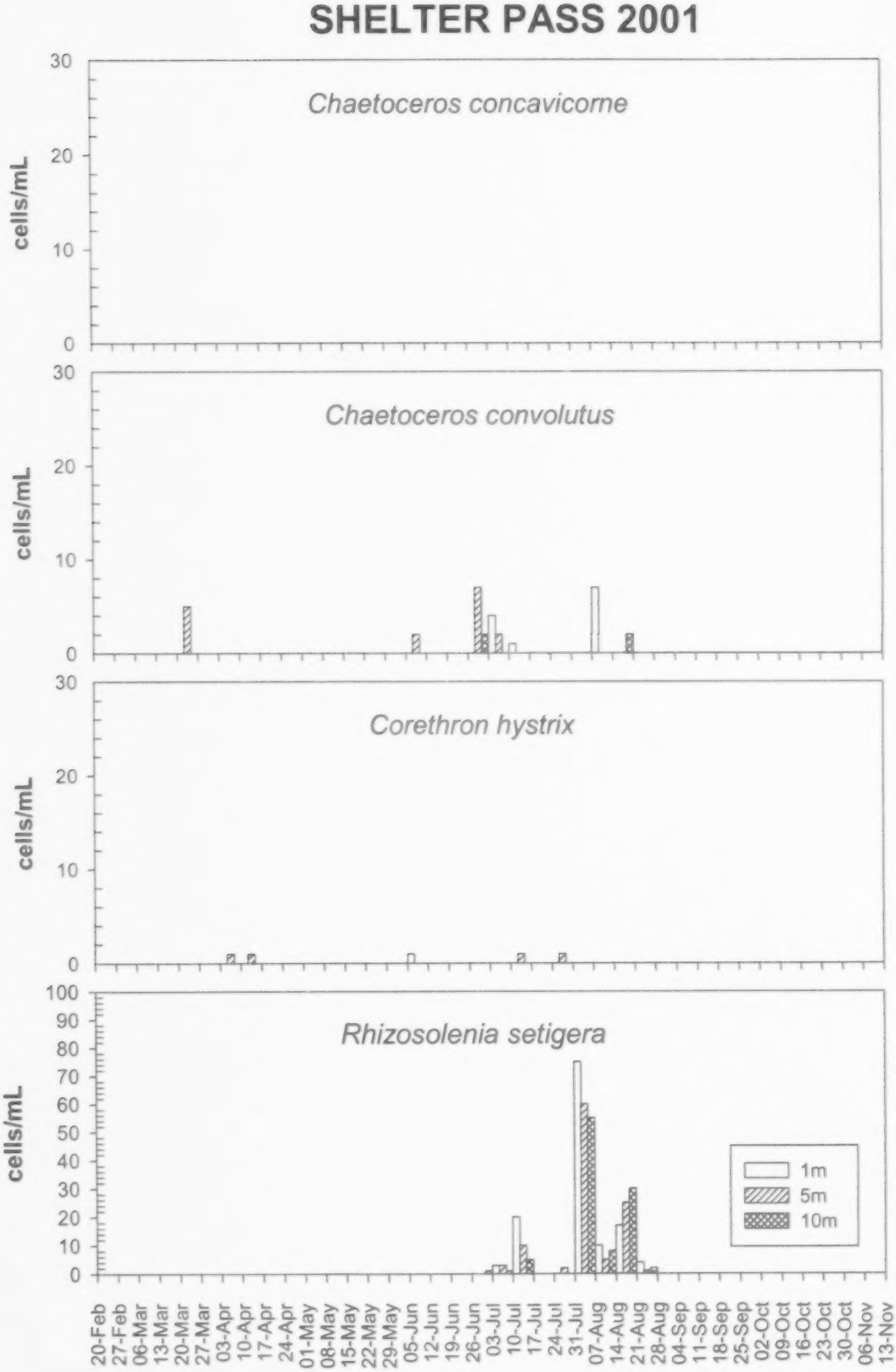

Figure 4: Harmful phytoplankton species in Shelter Pass samples.

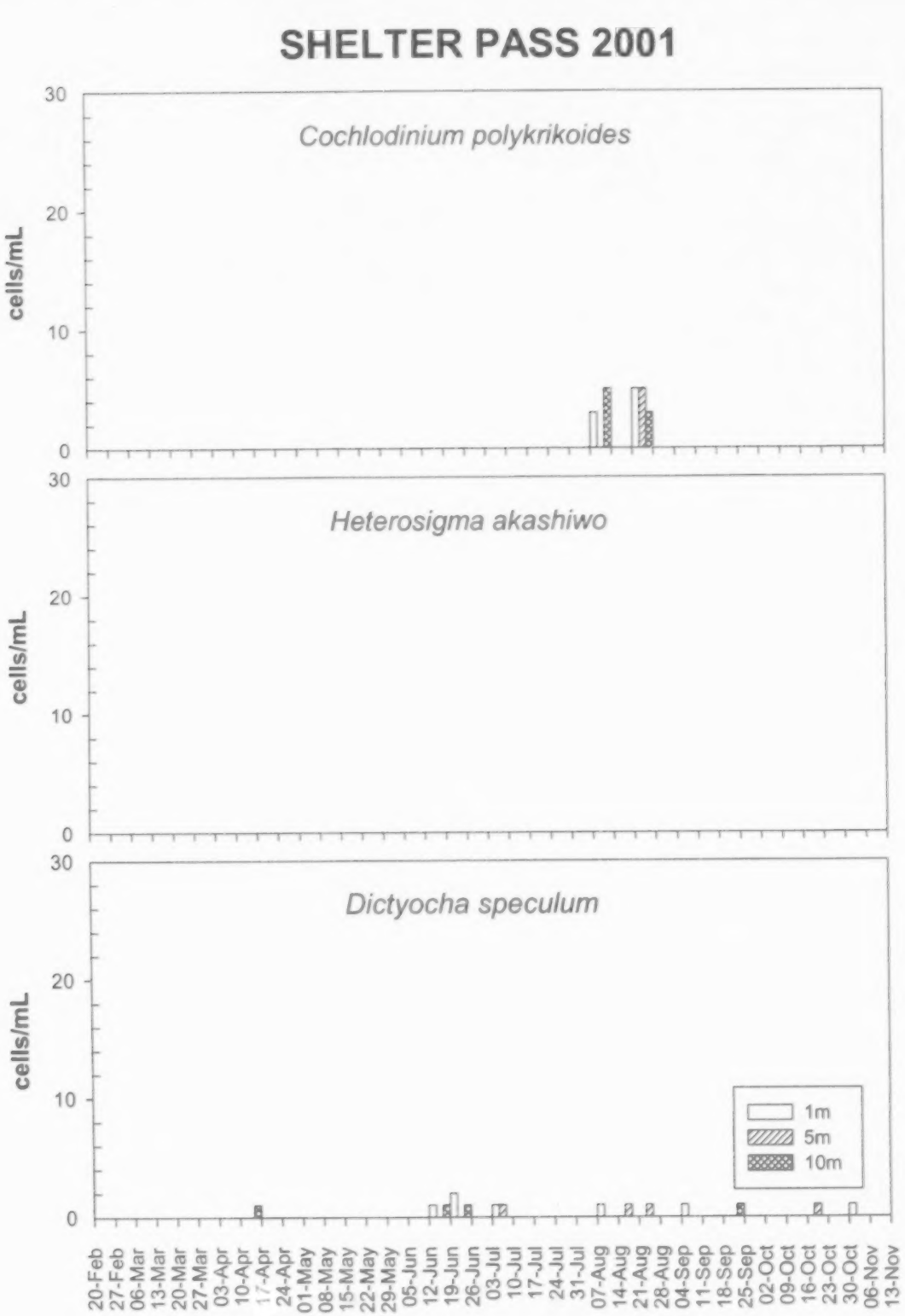

Figure 5: Harmful phytoplankton species in Shelter Pass samples.

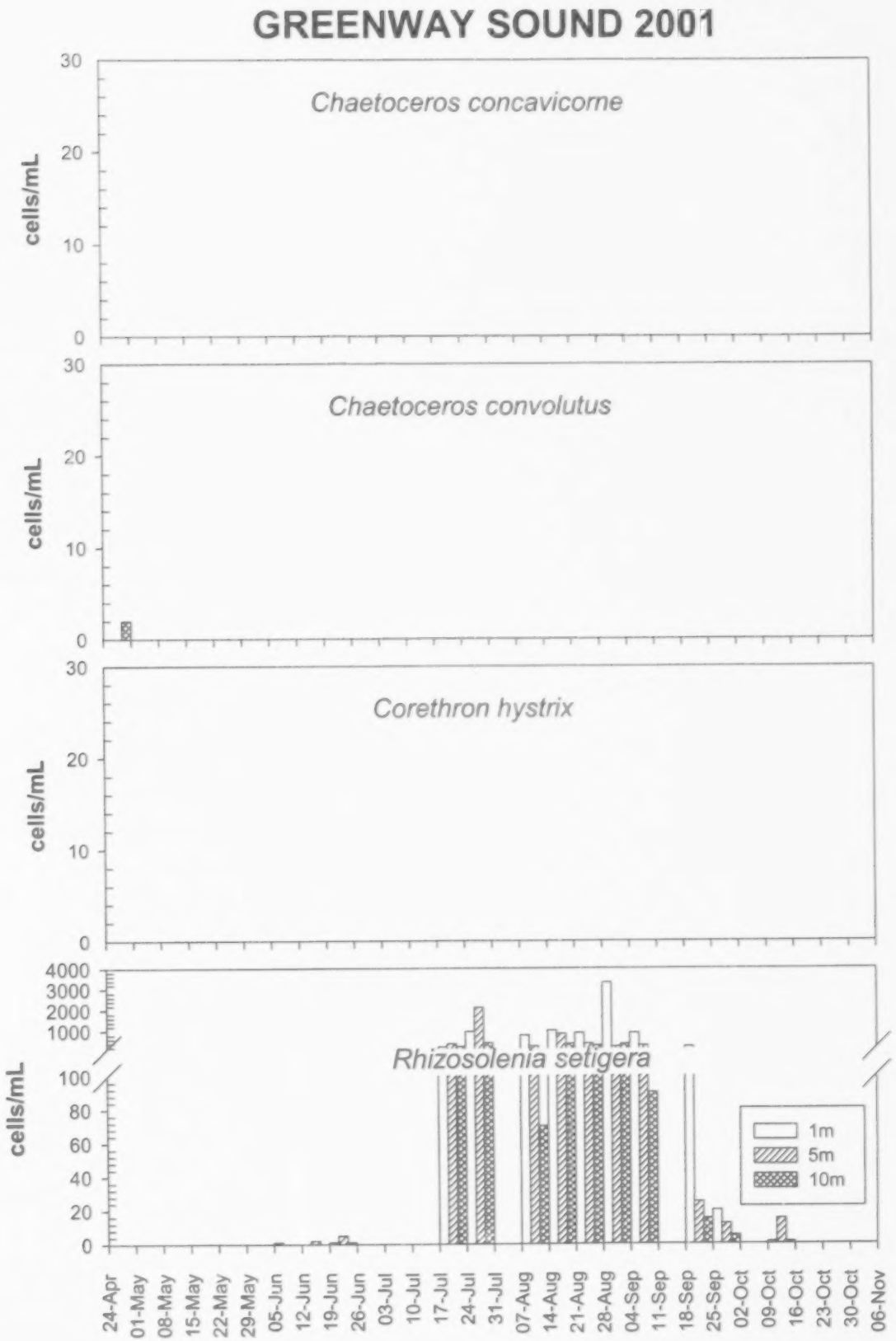

Figure 6: Harmful phytoplankton species in Greenway Sound samples.

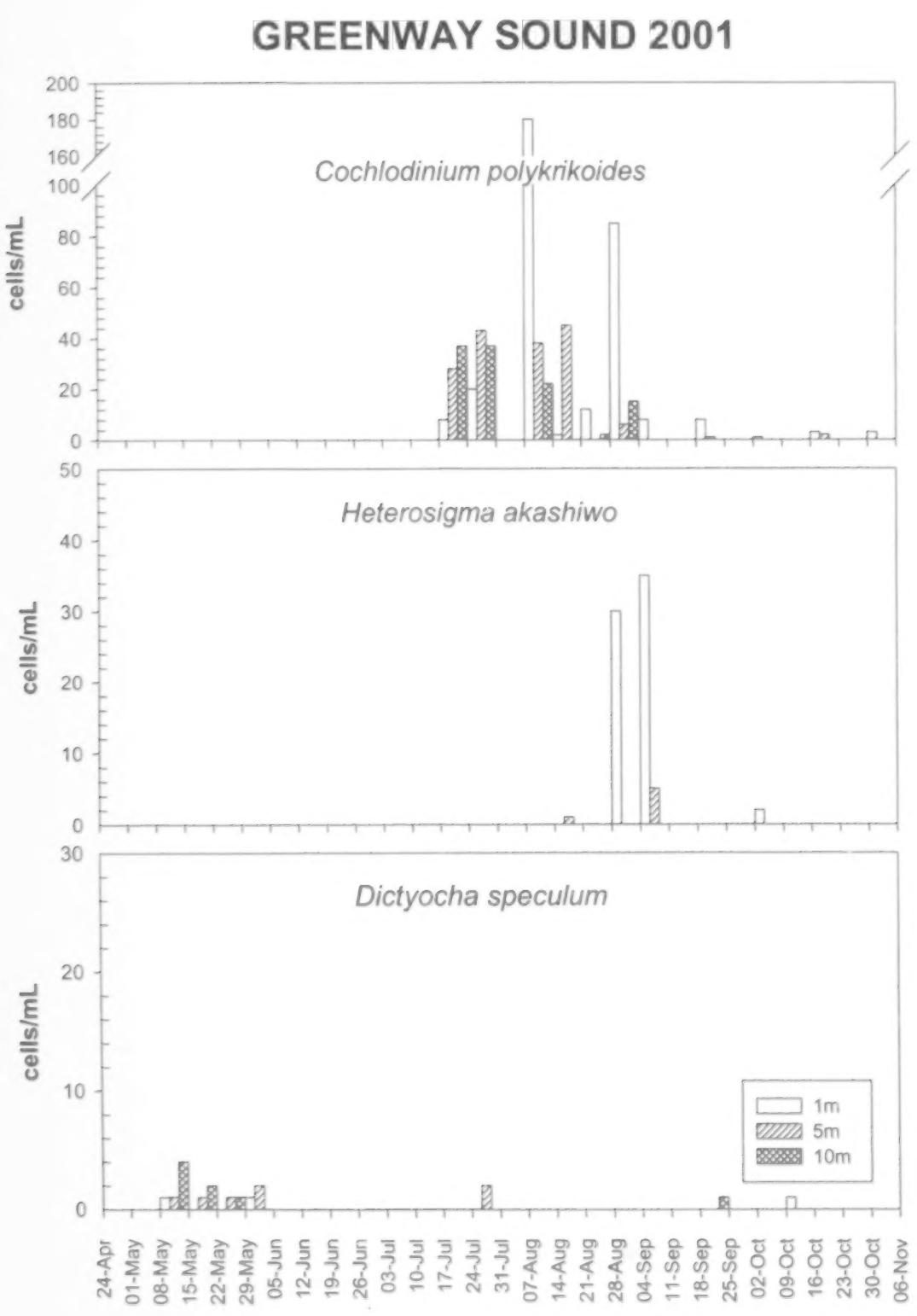

Figure 7: Harmful phytoplankton species in Greenway Sound samples.

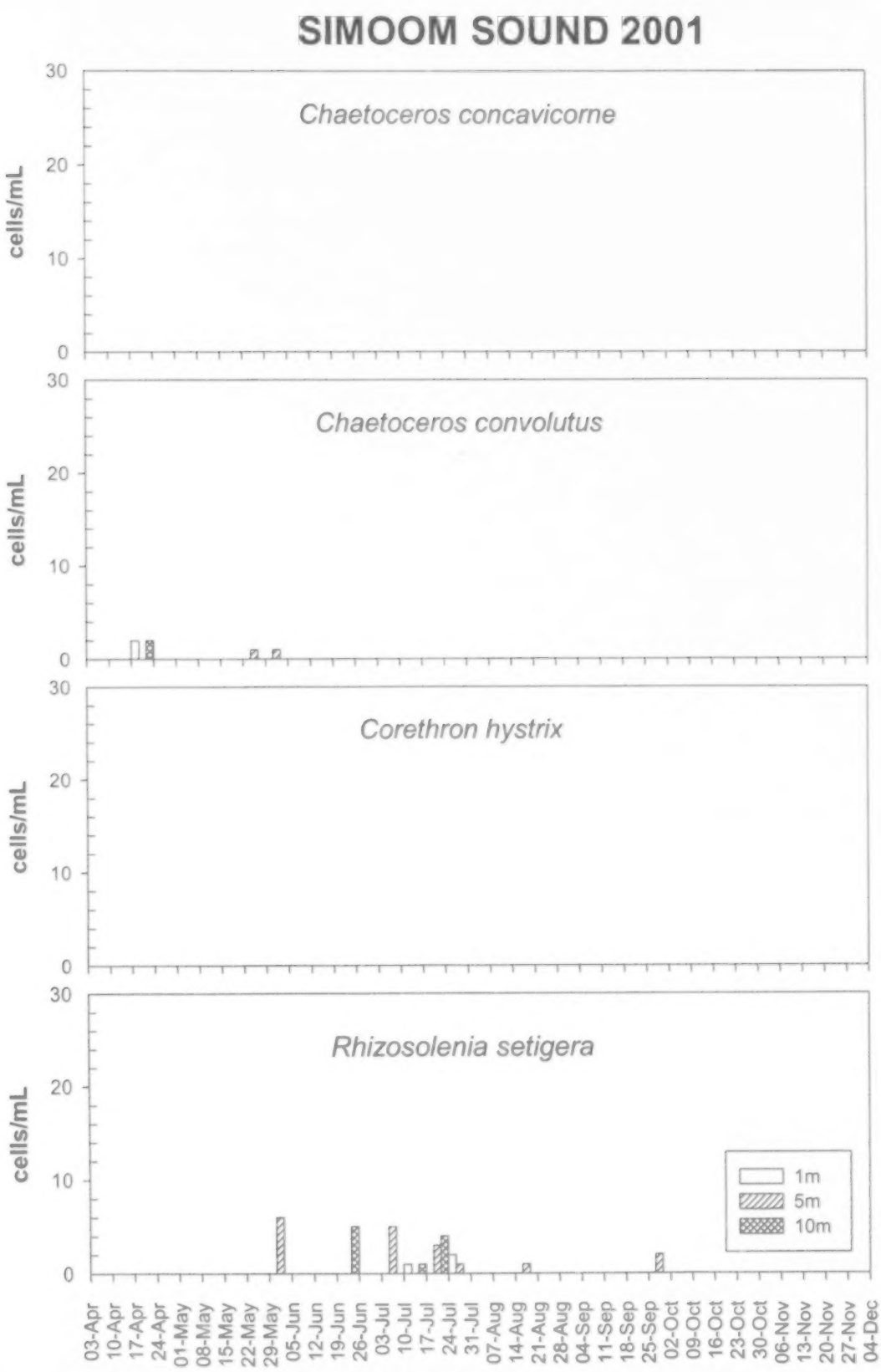

Figure 8: Harmful phytoplankton species in Simoom Sound samples.

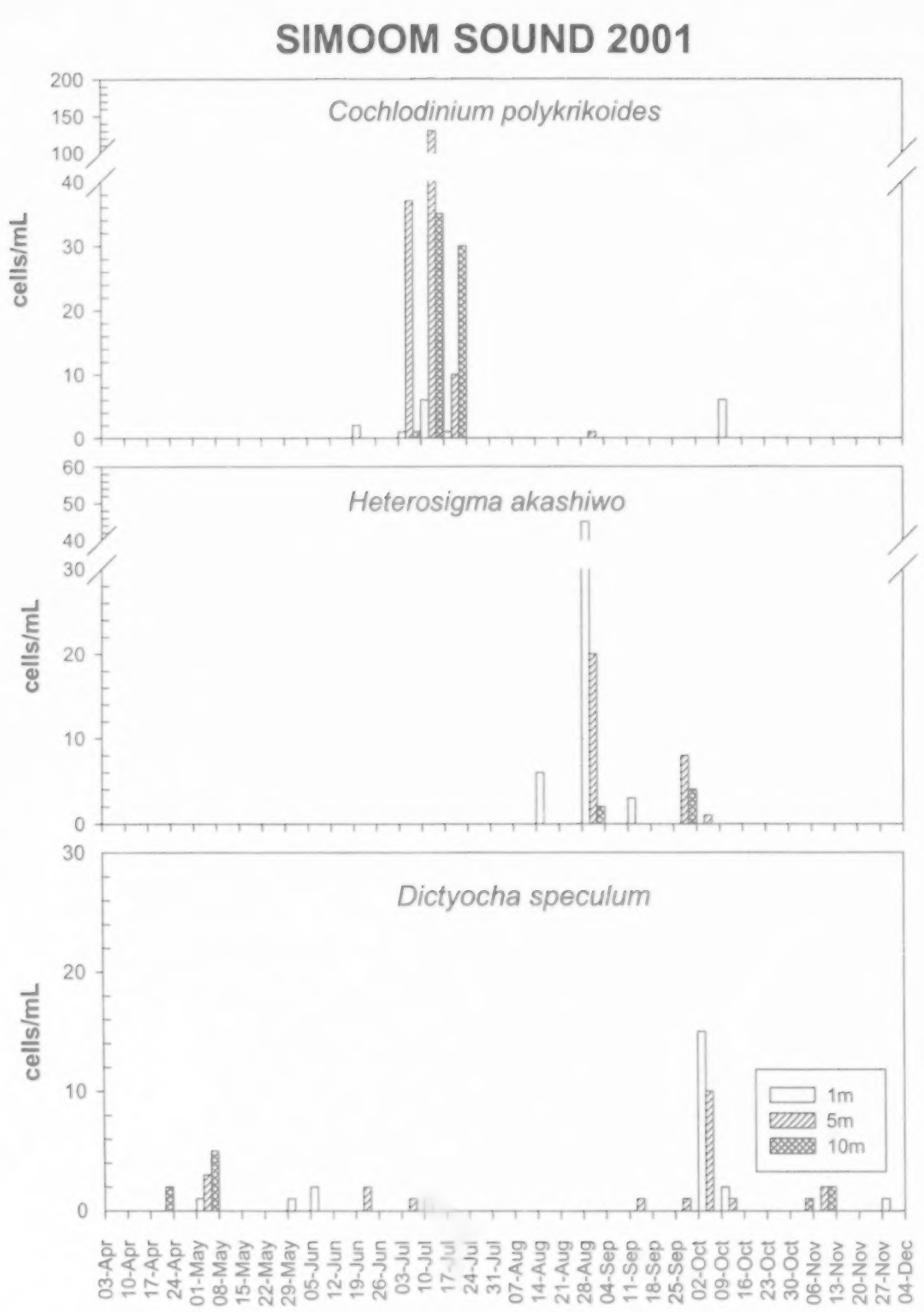

Figure 9: Harmful phytoplankton species in Simoom Sound samples.

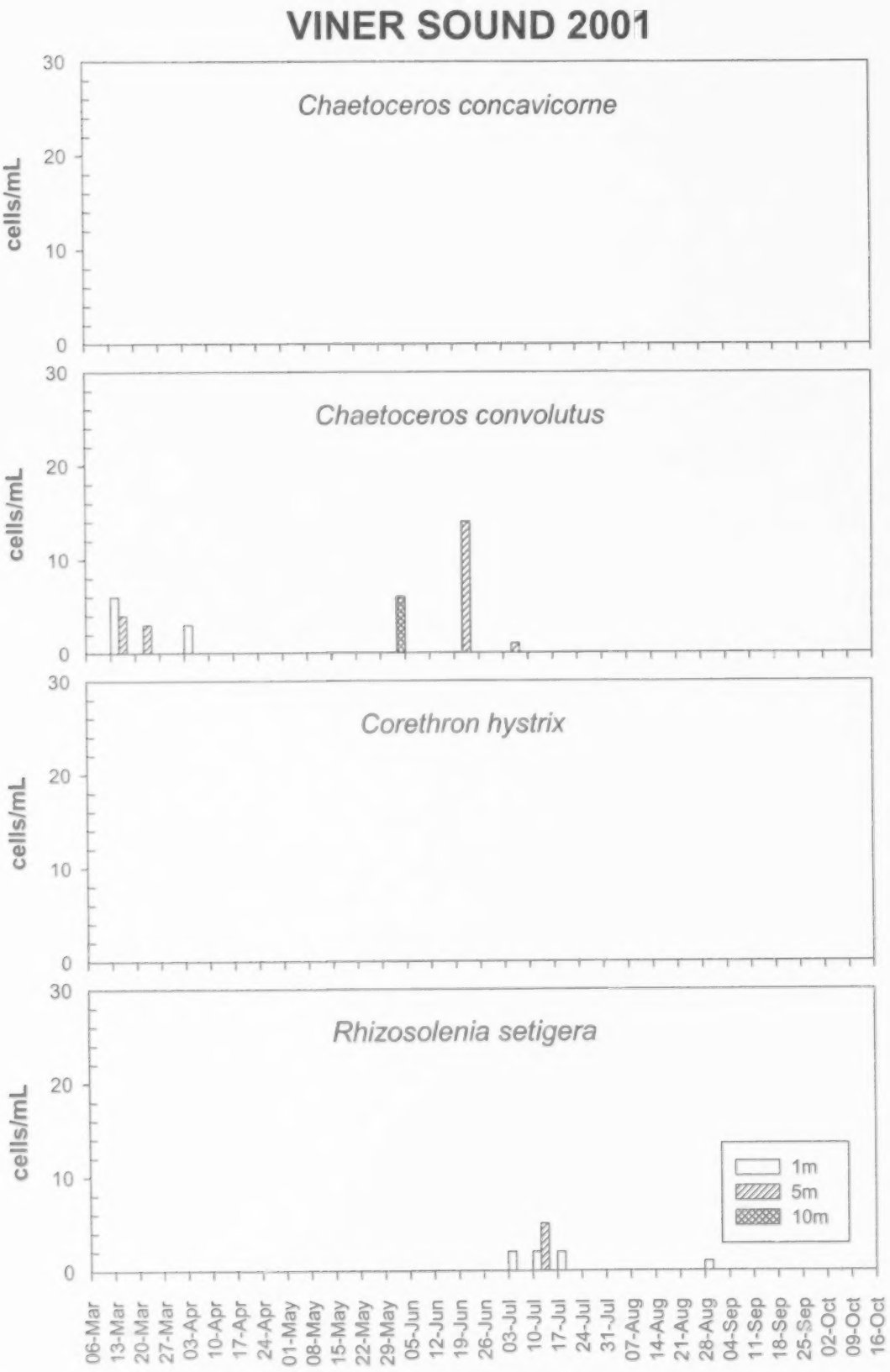

Figure 10: Harmful phytoplankton species in Viner Sound samples

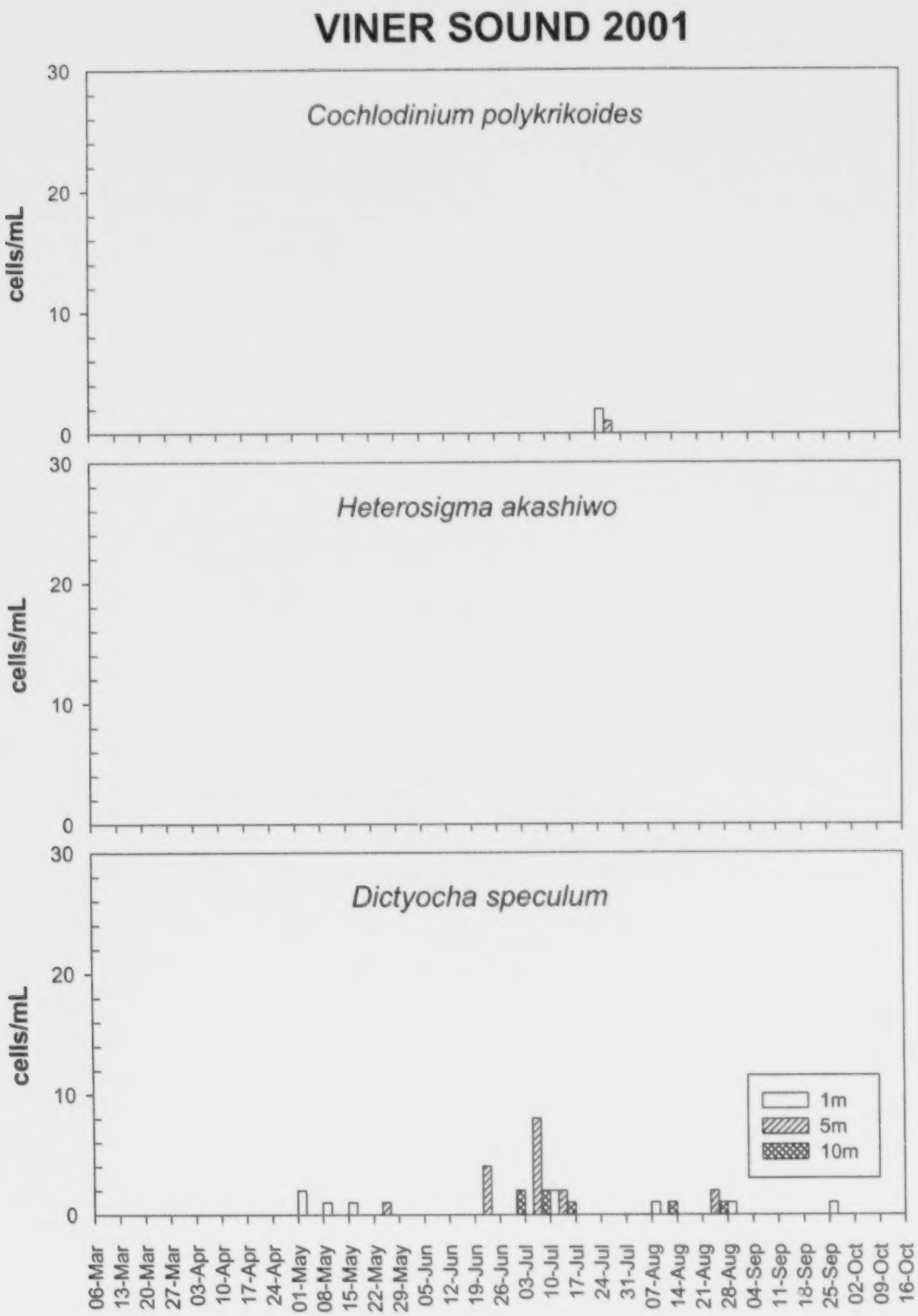

Figure 11: Harmful phytoplankton species in Viner Sound samples.

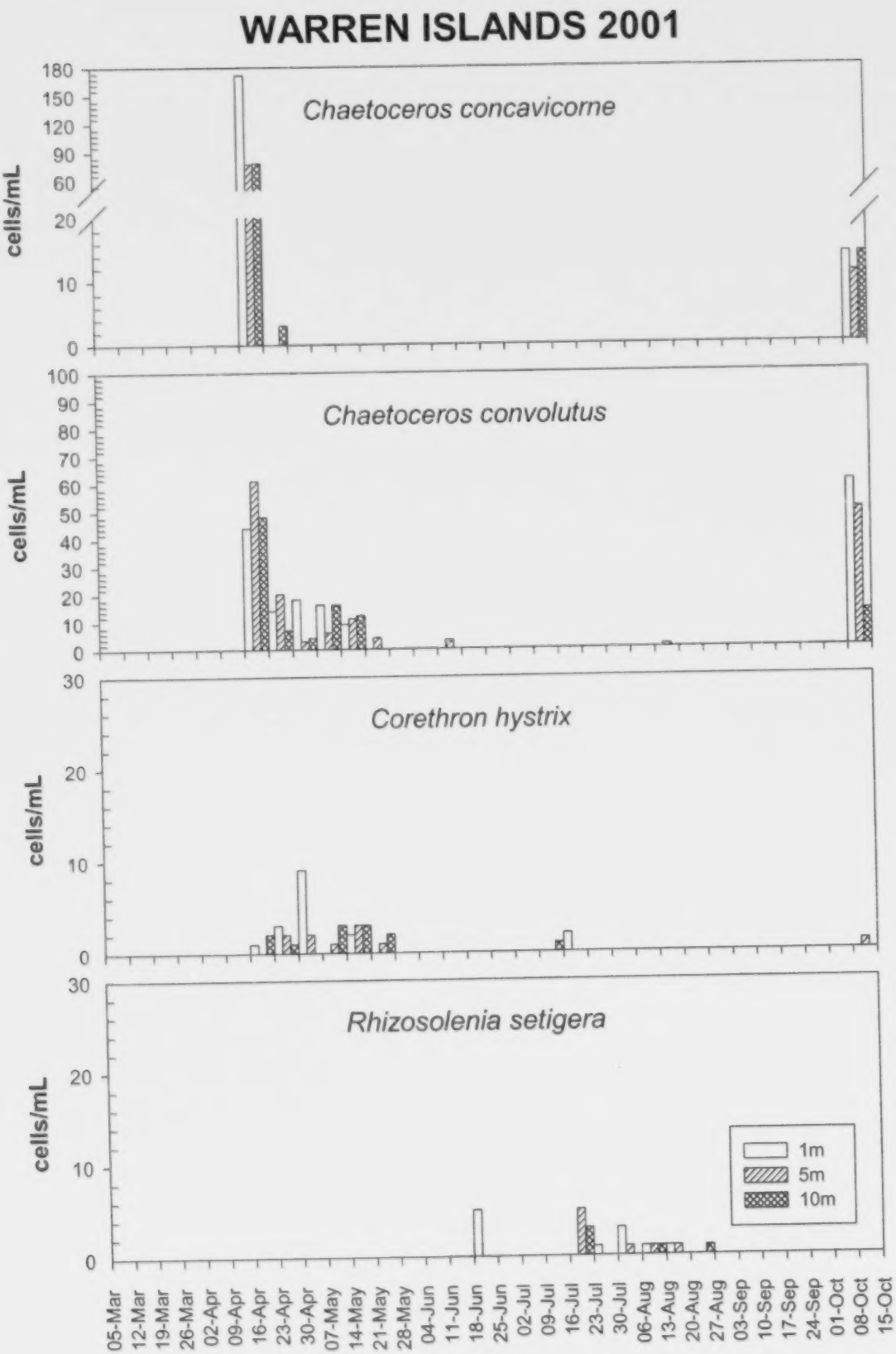

Figure 12: Harmful phytoplankton species in Warren Islands samples.

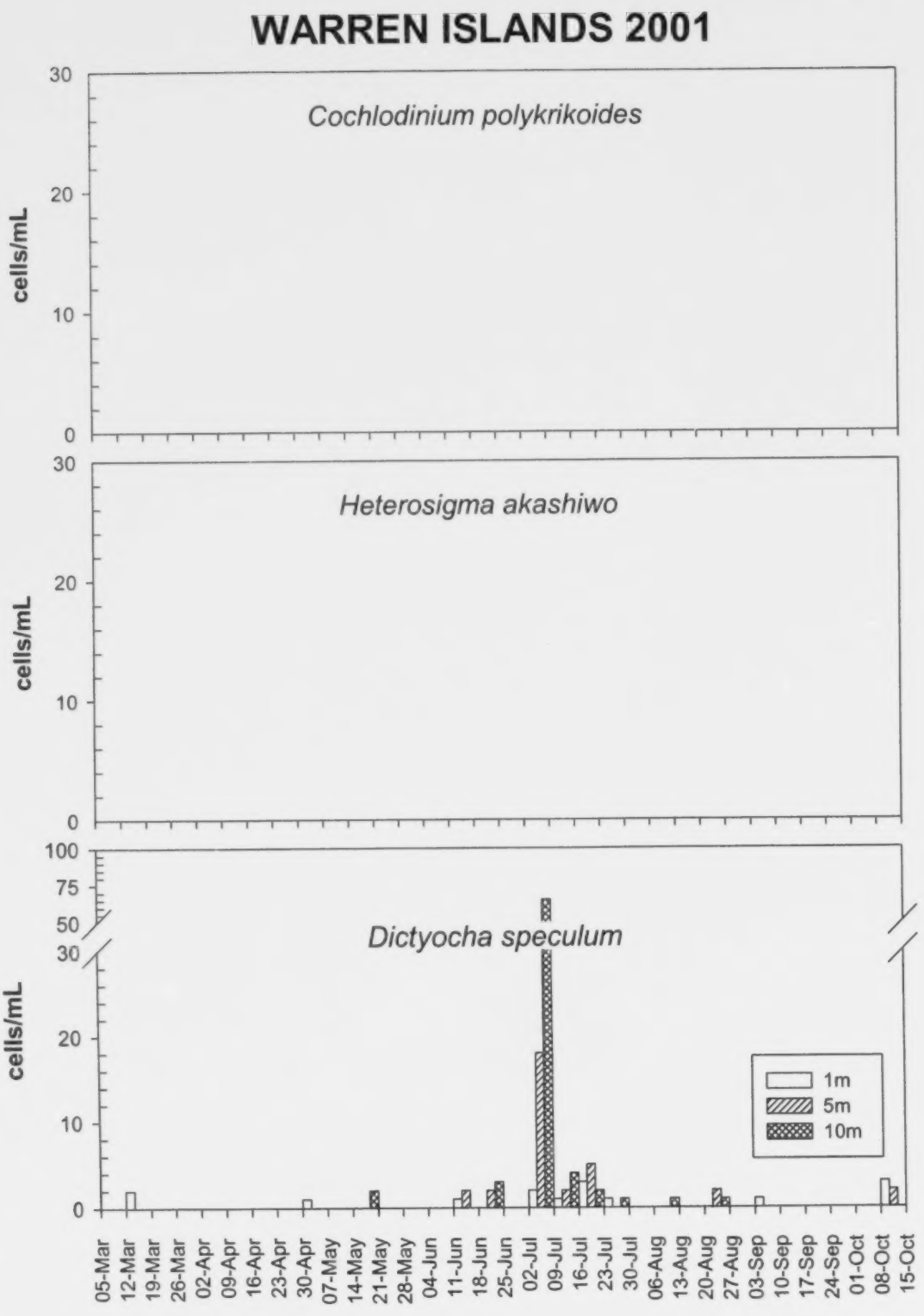

Figure 13: Harmful phytoplankton species in Warren Islands samples.

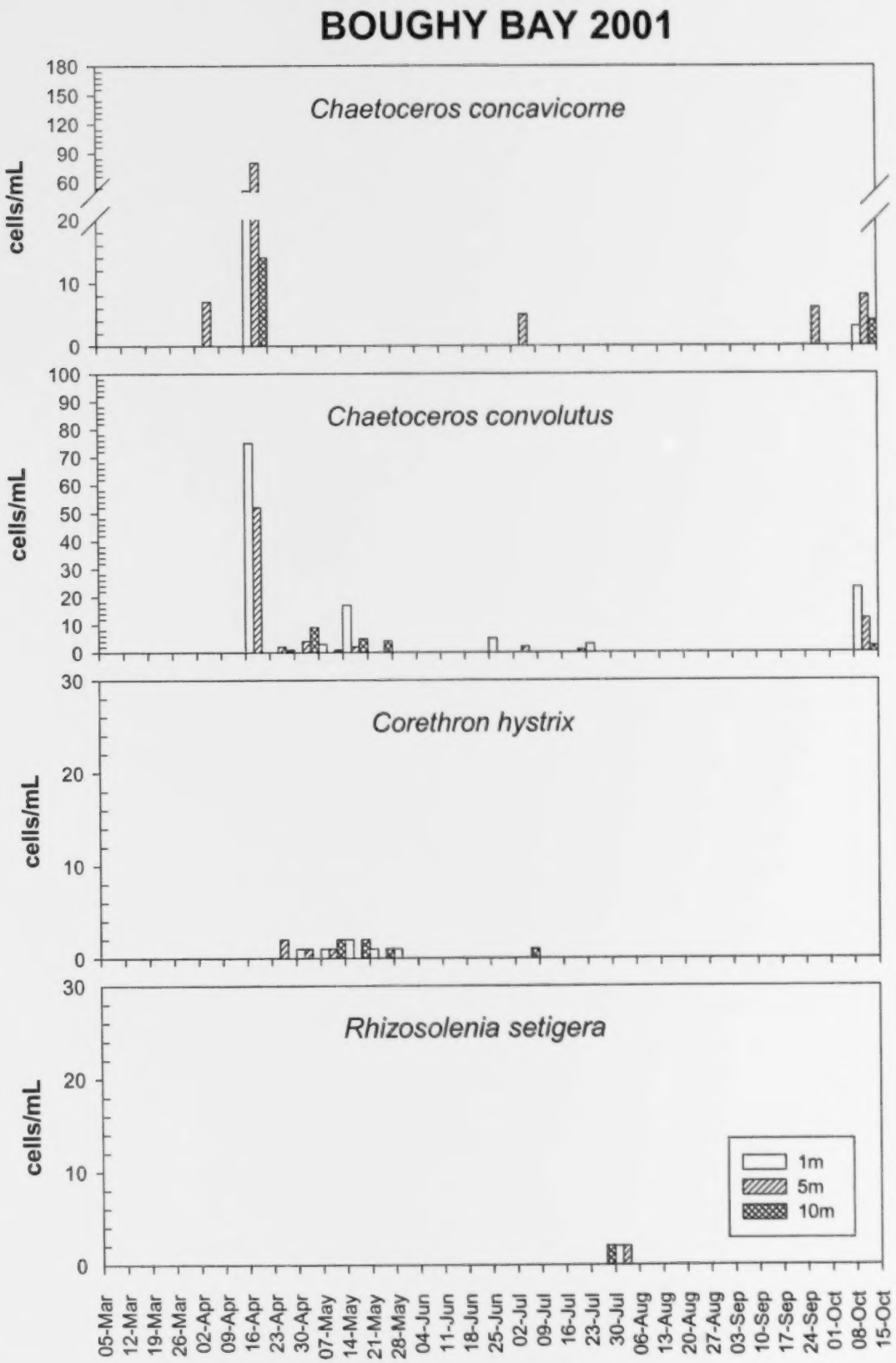

Figure 14: Harmful phytoplankton species in Boughy Bay samples.

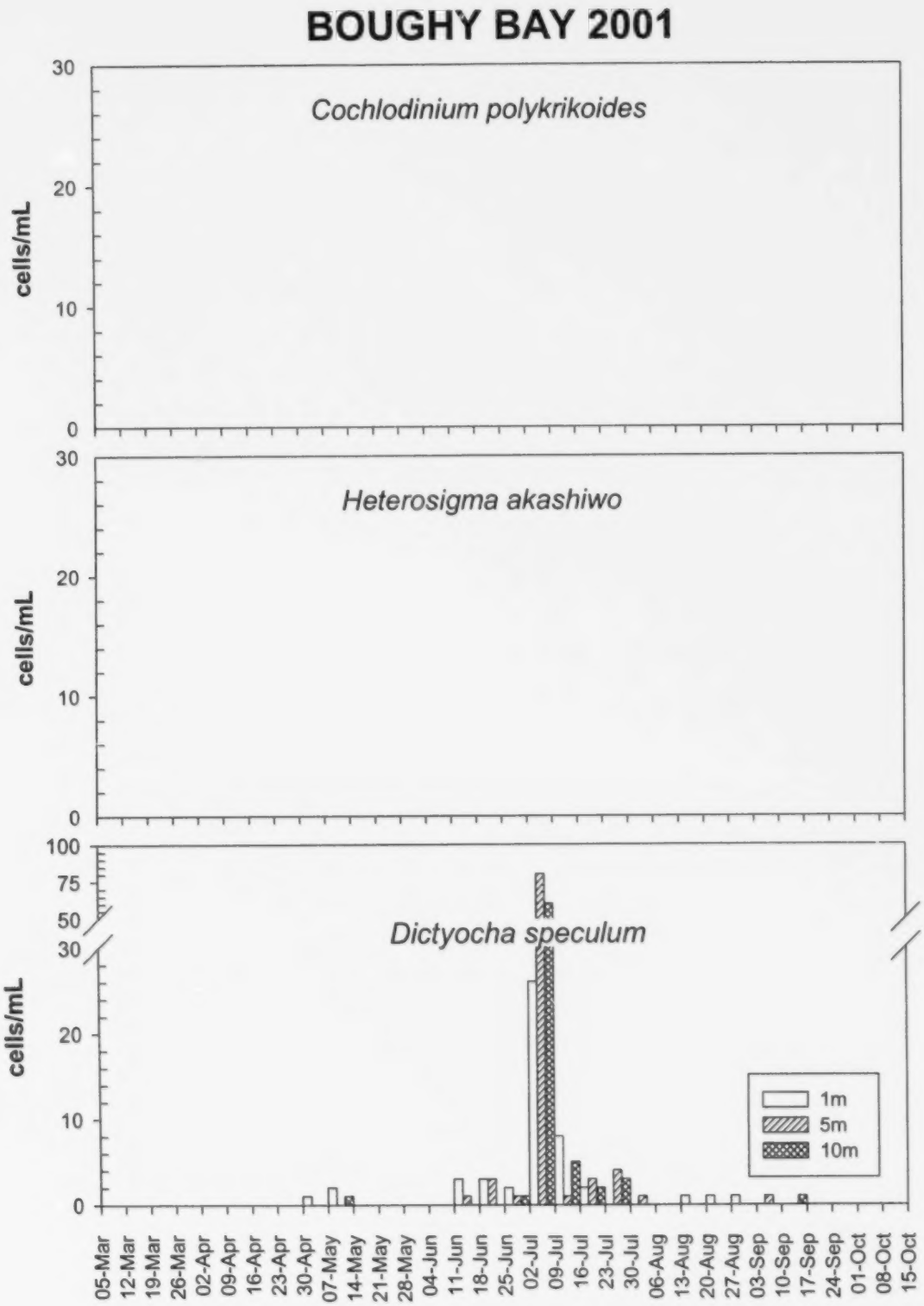

Figure 15: Harmful phytoplankton species in Boughy Bay samples.

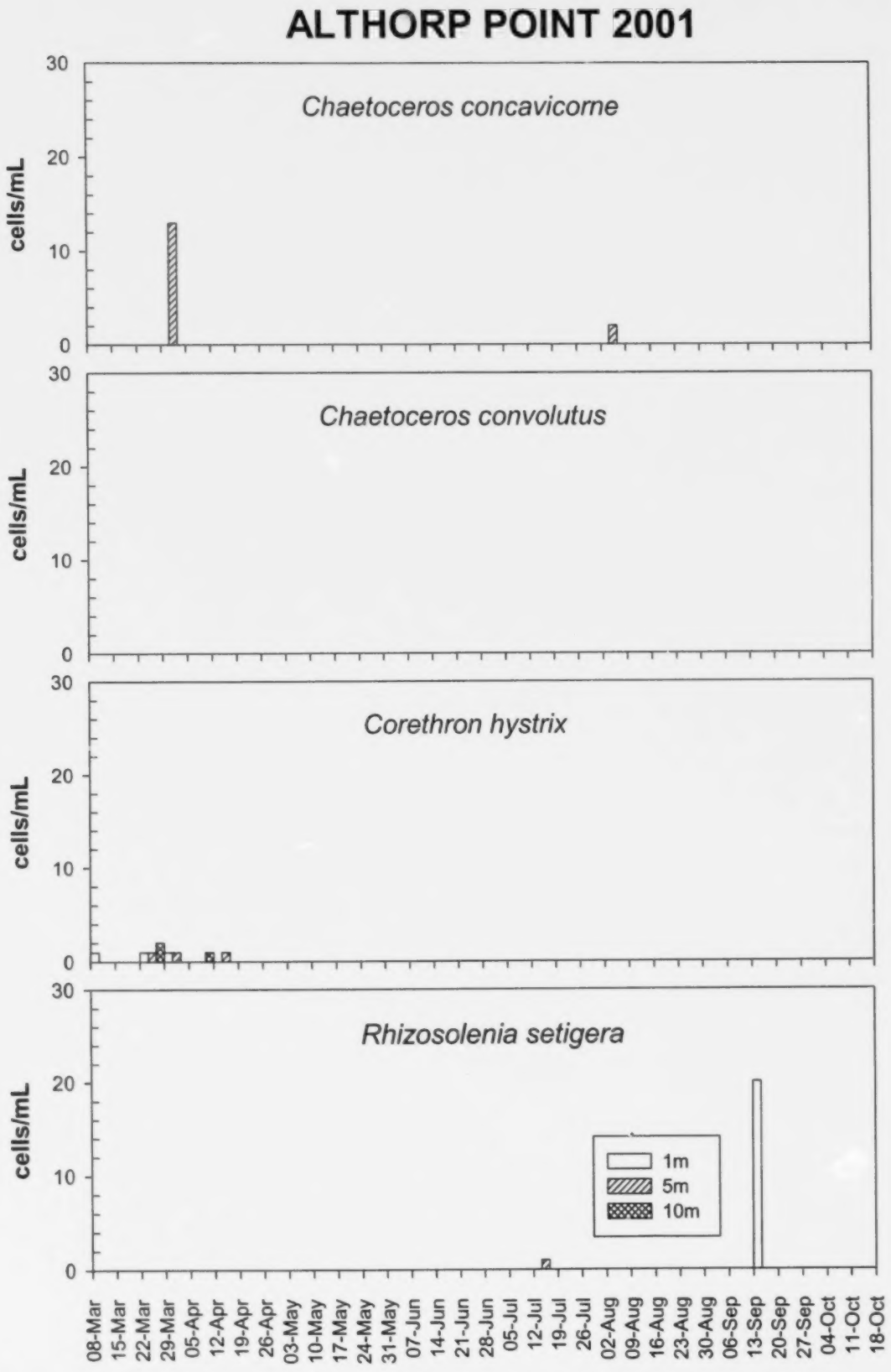

Figure 16: Harmful phytoplankton species in Althorp Point samples.

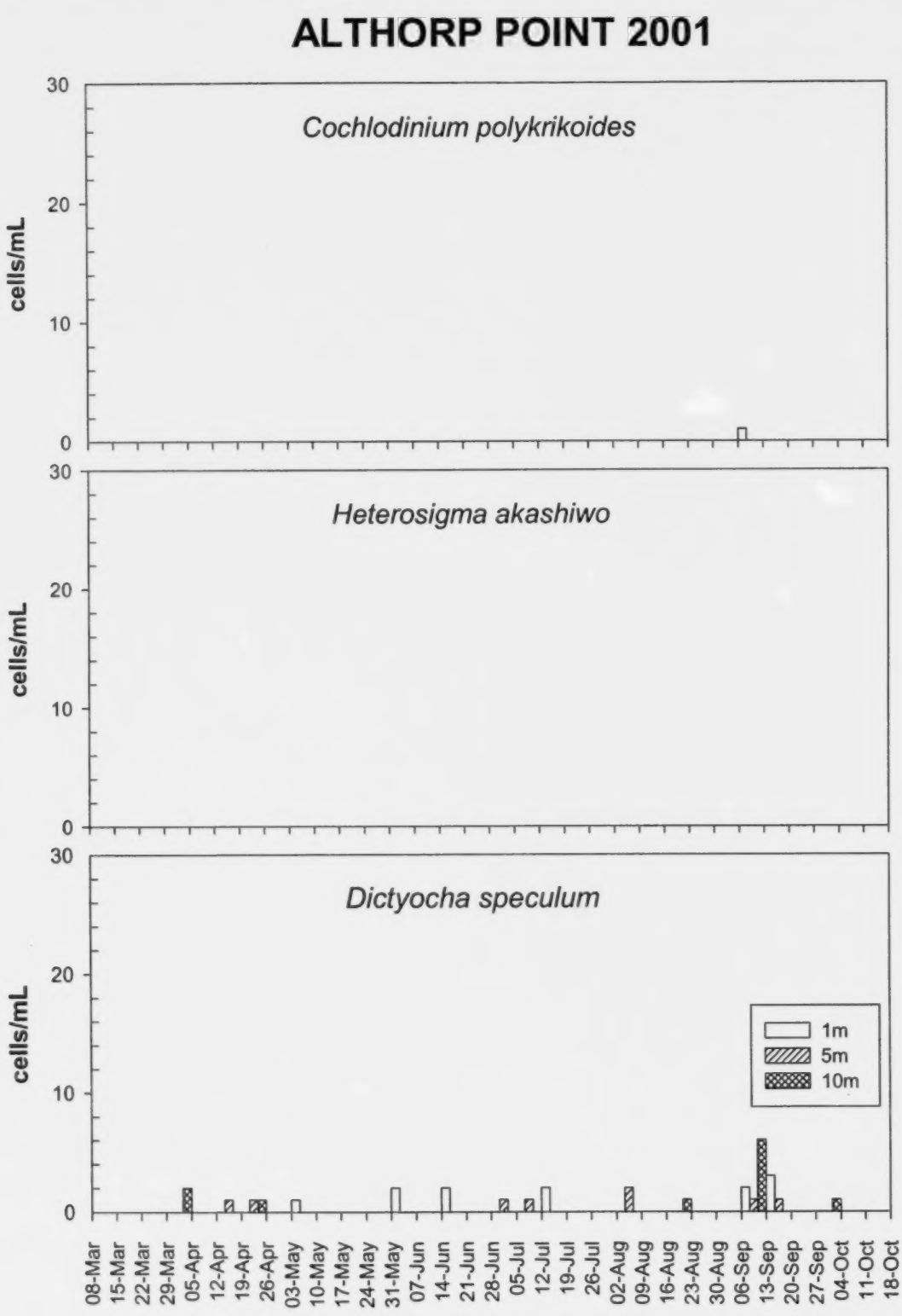

Figure 17: Harmful phytoplankton species in Althorp Point samples.

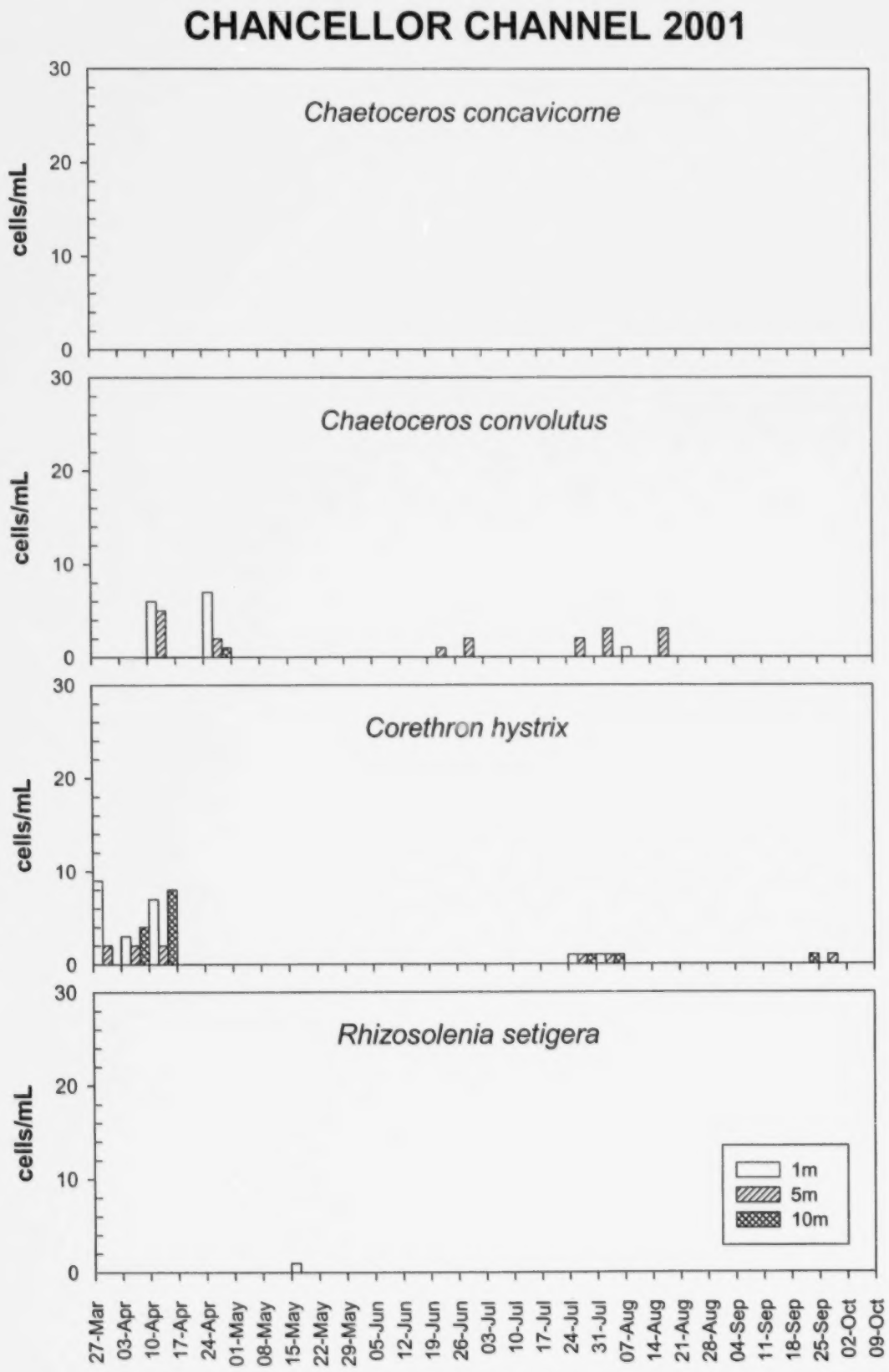

Figure 18: Harmful phytoplankton species in Chancellor Channel samples.

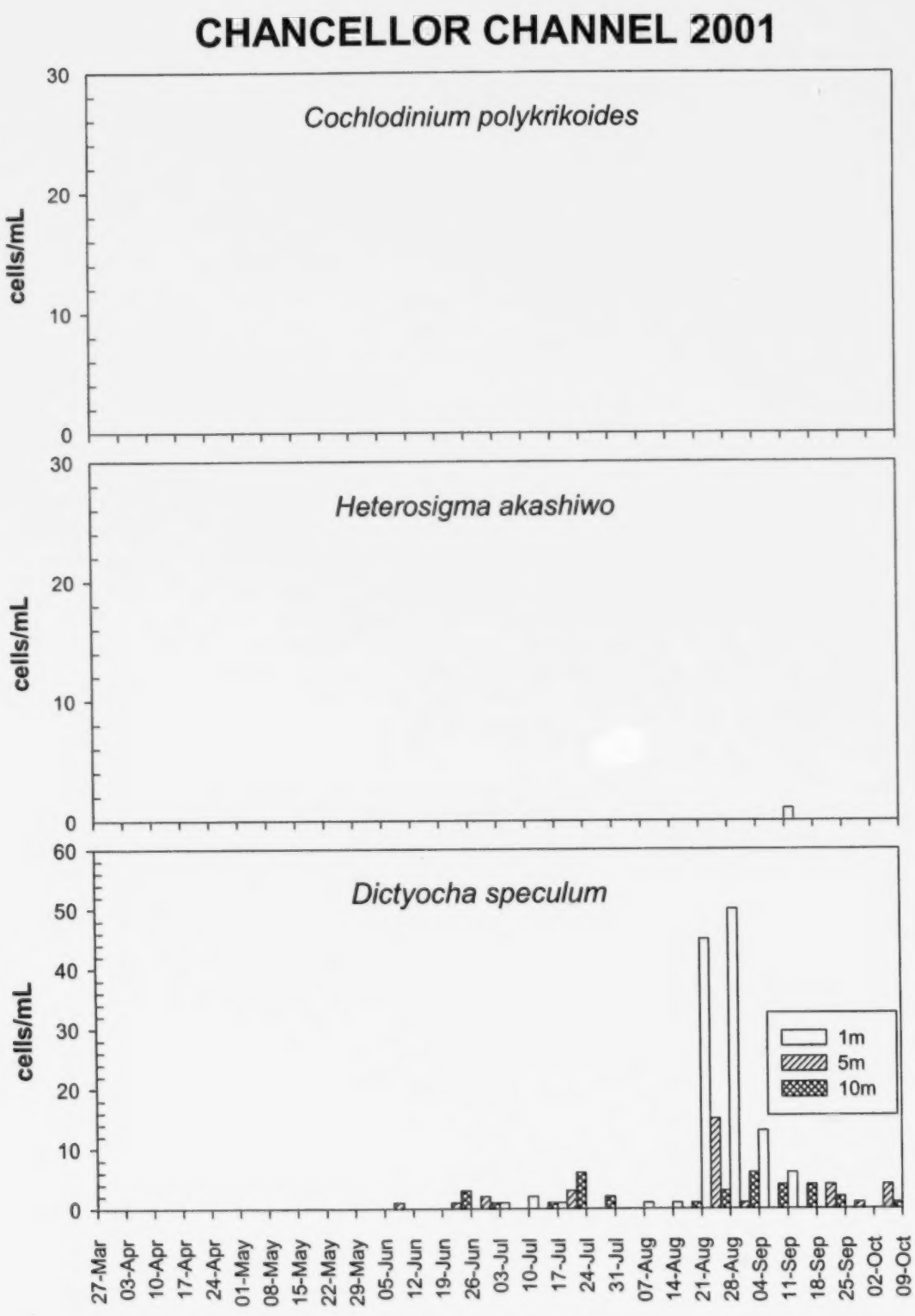

Figure 19: Harmful phytoplankton species in Chancellor Channel samples.

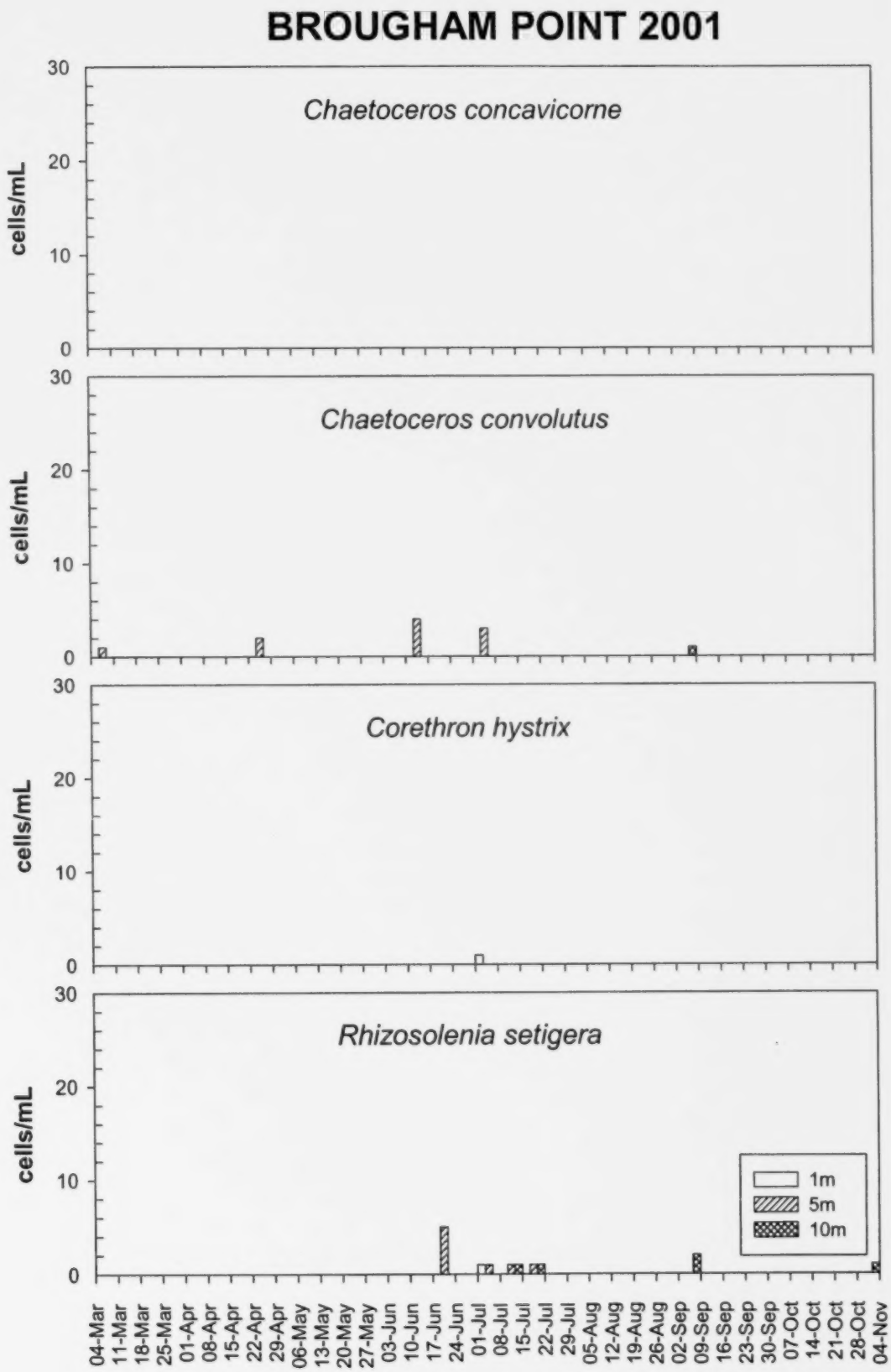

Figure 20: Harmful phytoplankton species in Brougham Point samples.

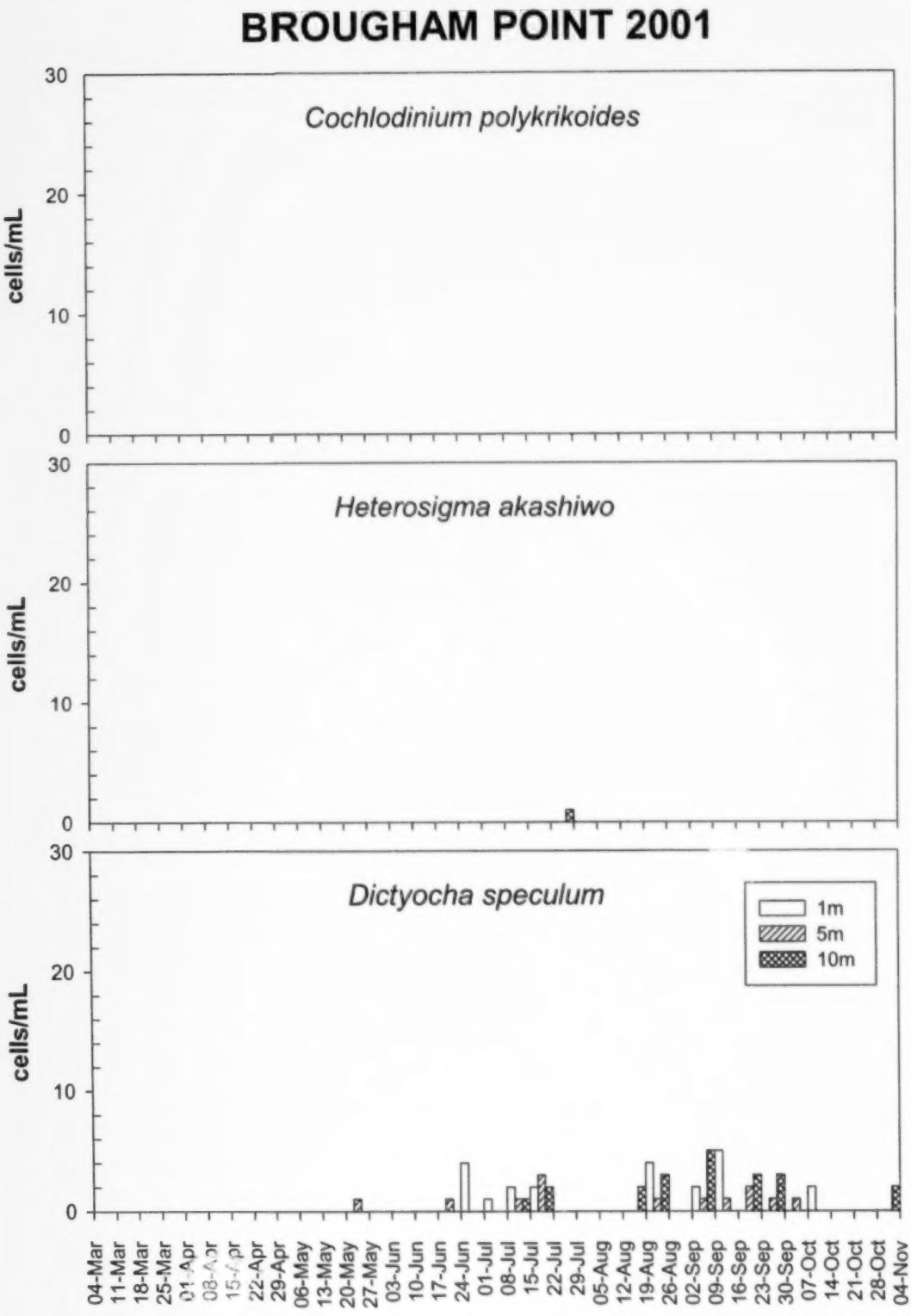

Figure 21: Harmful phytoplankton species in Brougham Point samples.

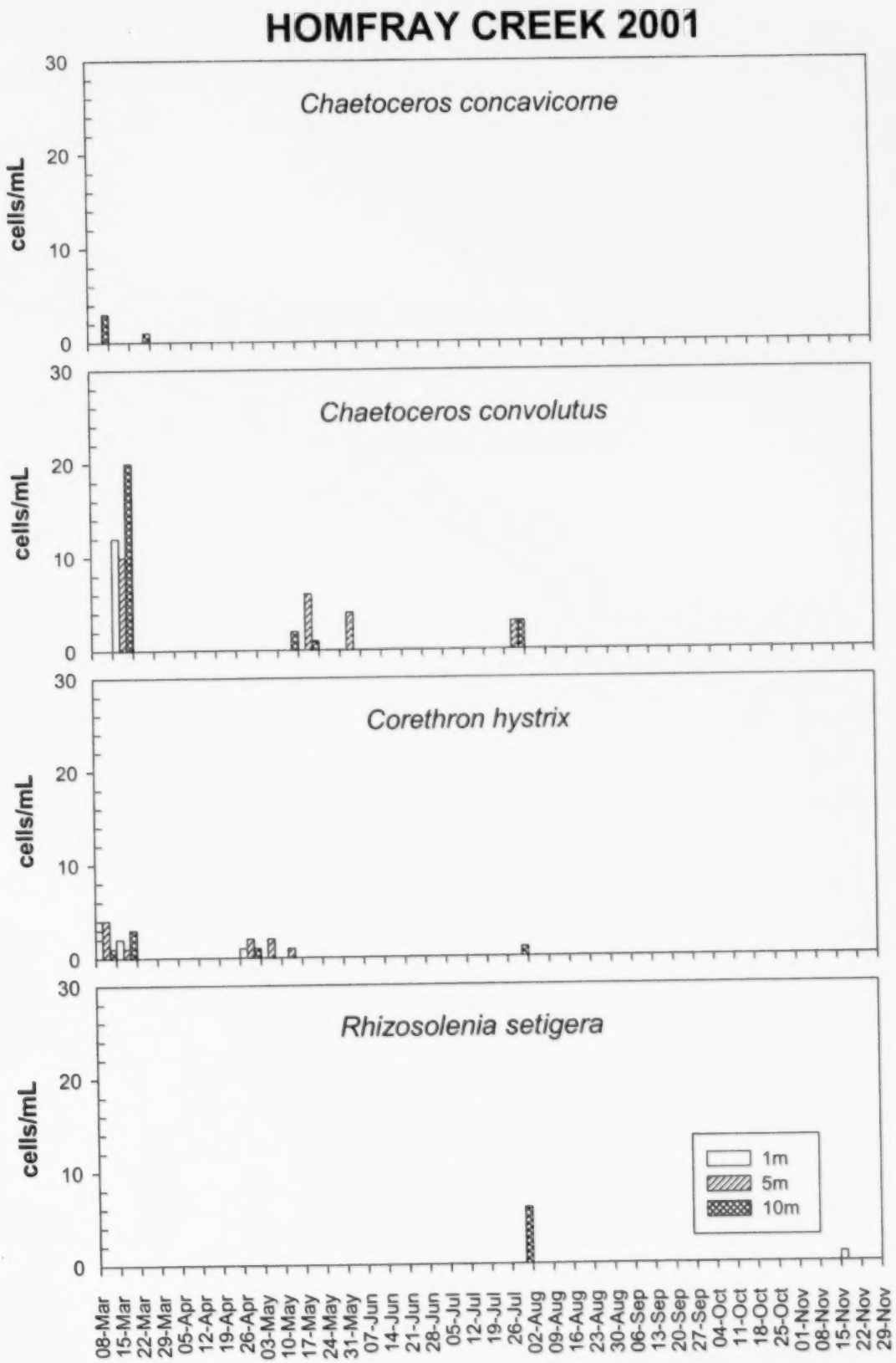

Figure 22: Harmful phytoplankton species in Homfray Creek samples.

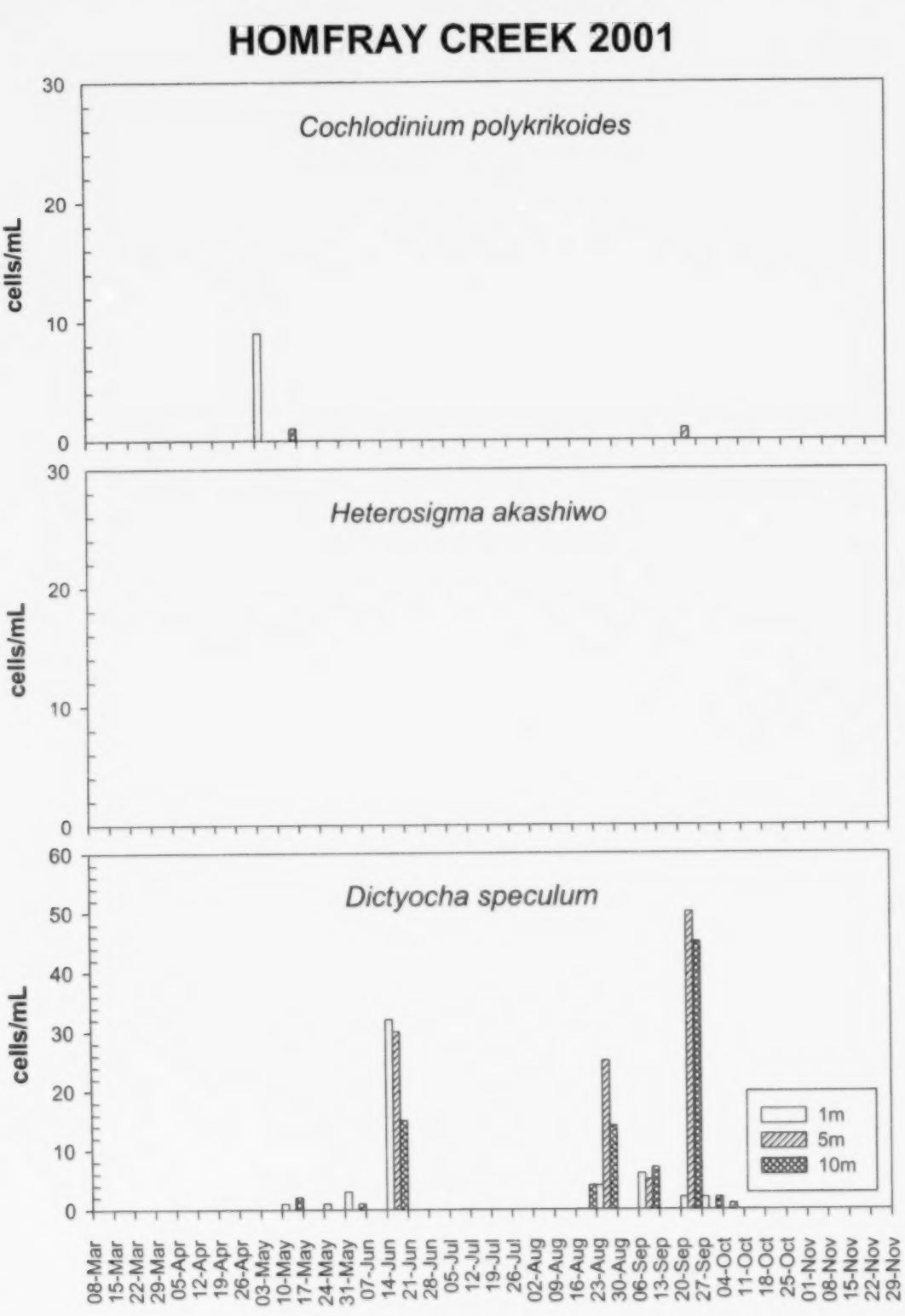

Figure 23: Harmful phytoplankton species in Homfray Creek samples.

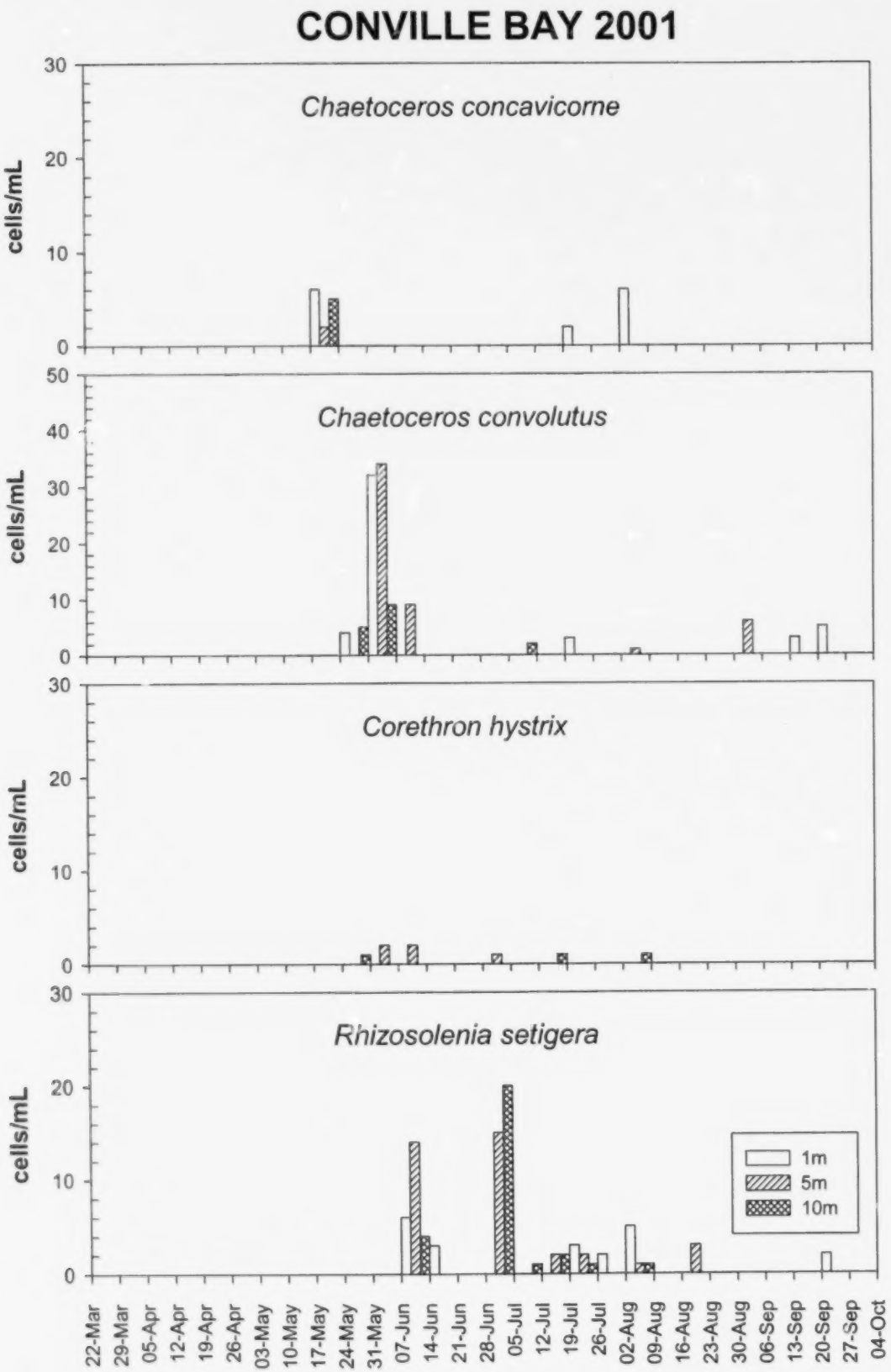

Figure 24: Harmful phytoplankton species in Conville Bay samples.

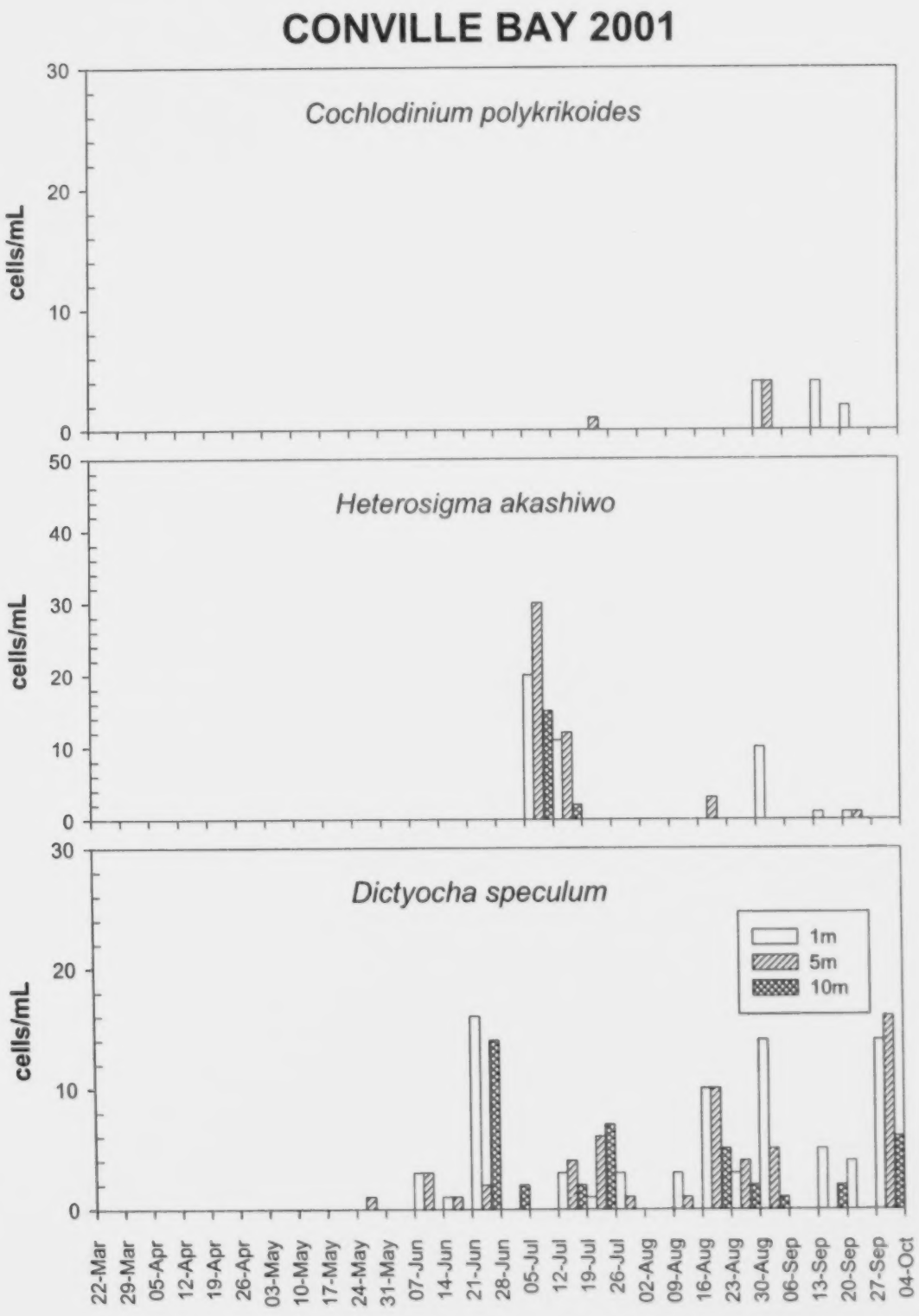

Figure 25: Harmful phytoplankton species in Conville Bay samples.

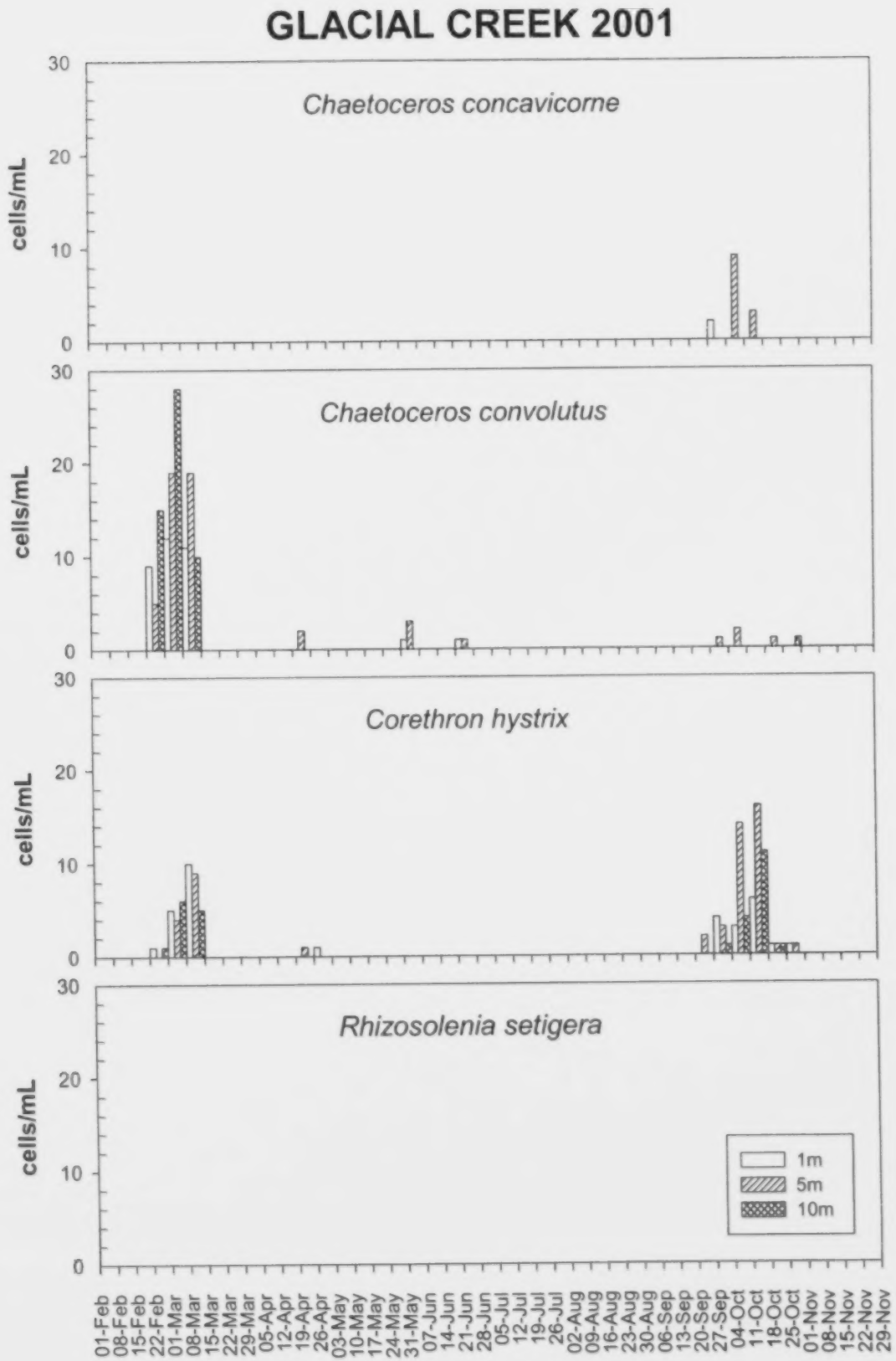

Figure 26: Harmful phytoplankton species in Glacial Creek samples.

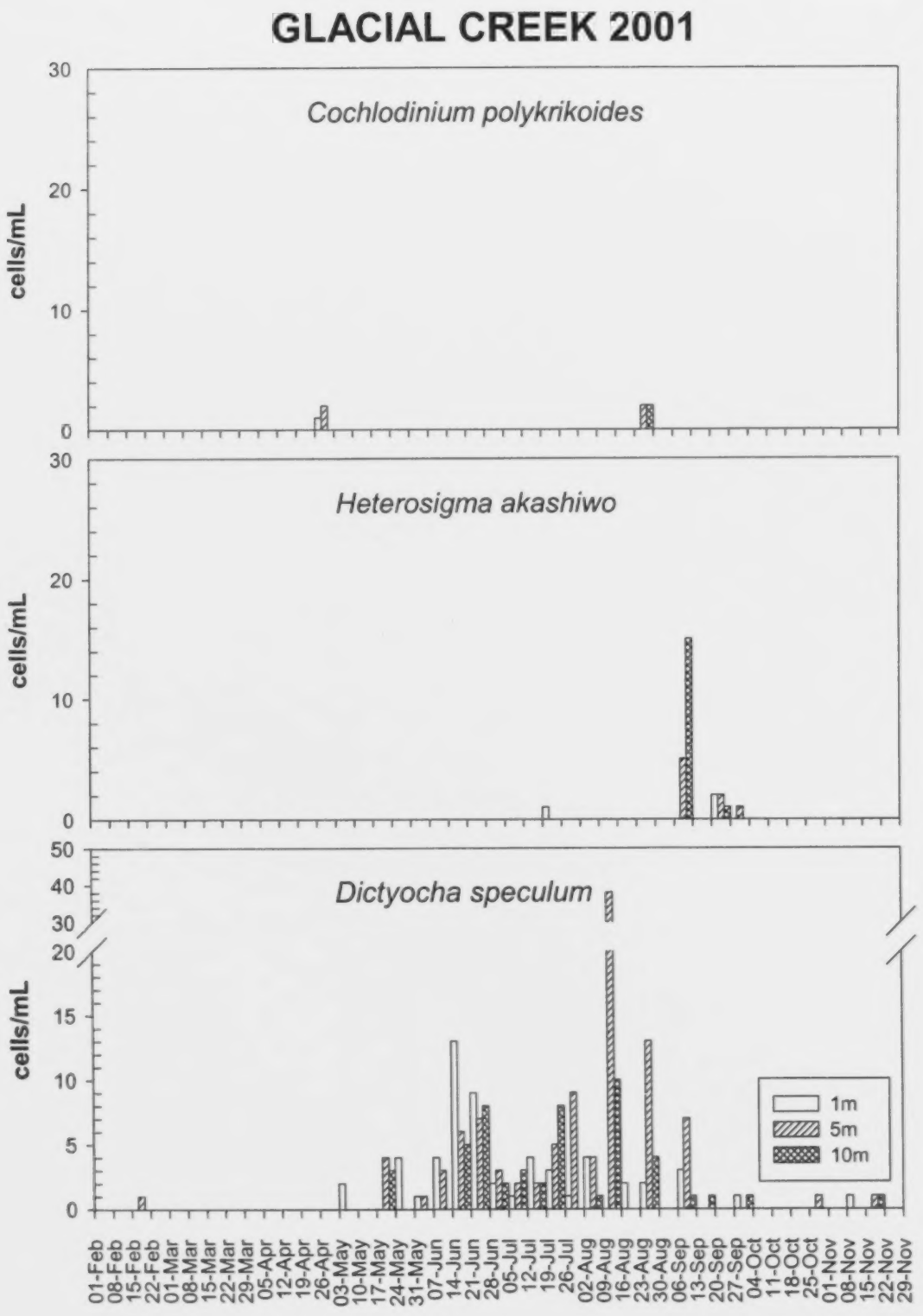

Figure 27: Harmful phytoplankton species in Glacial Creek samples.

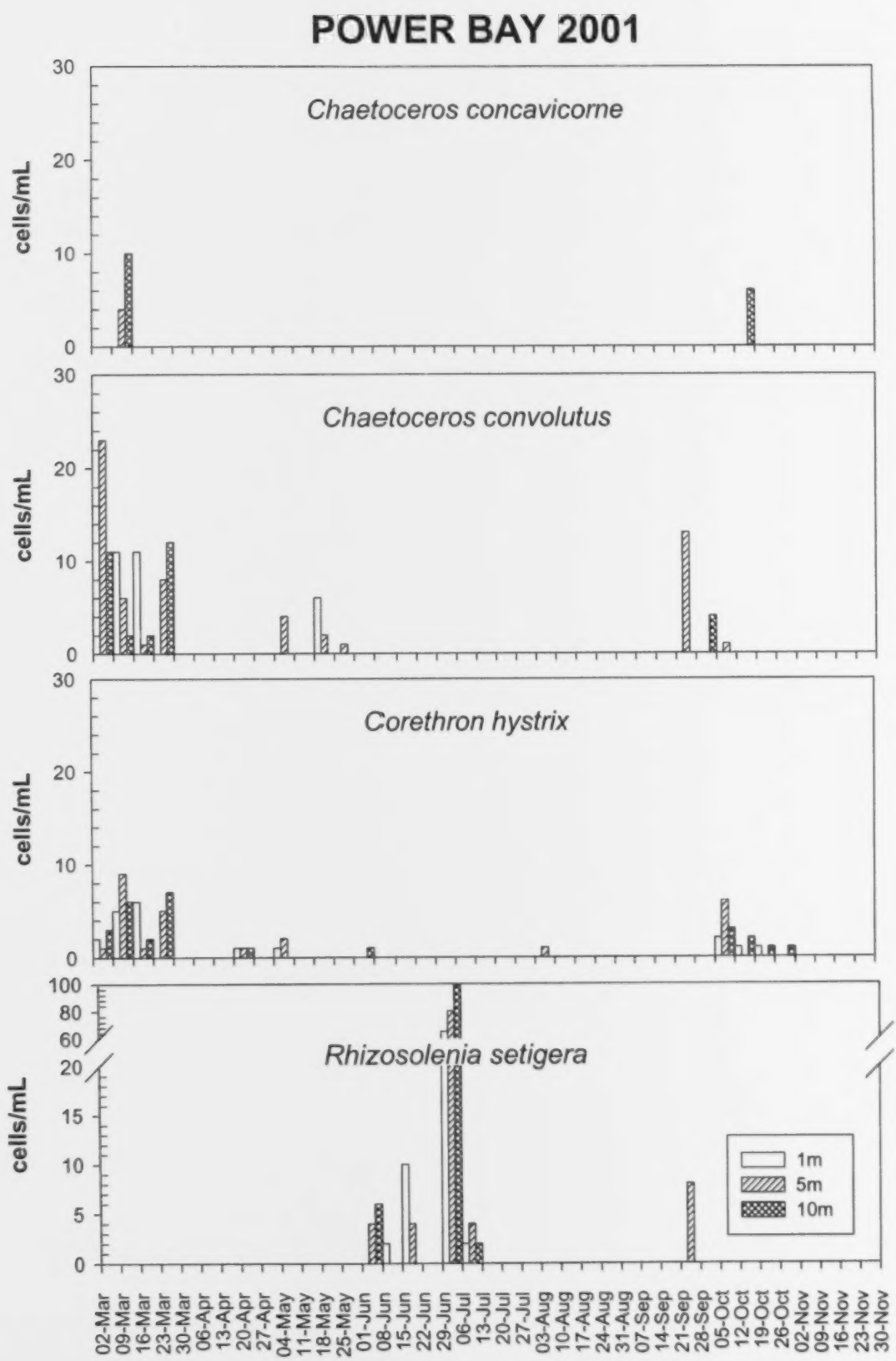

Figure 28: Harmful phytoplankton species in Power Bay samples.

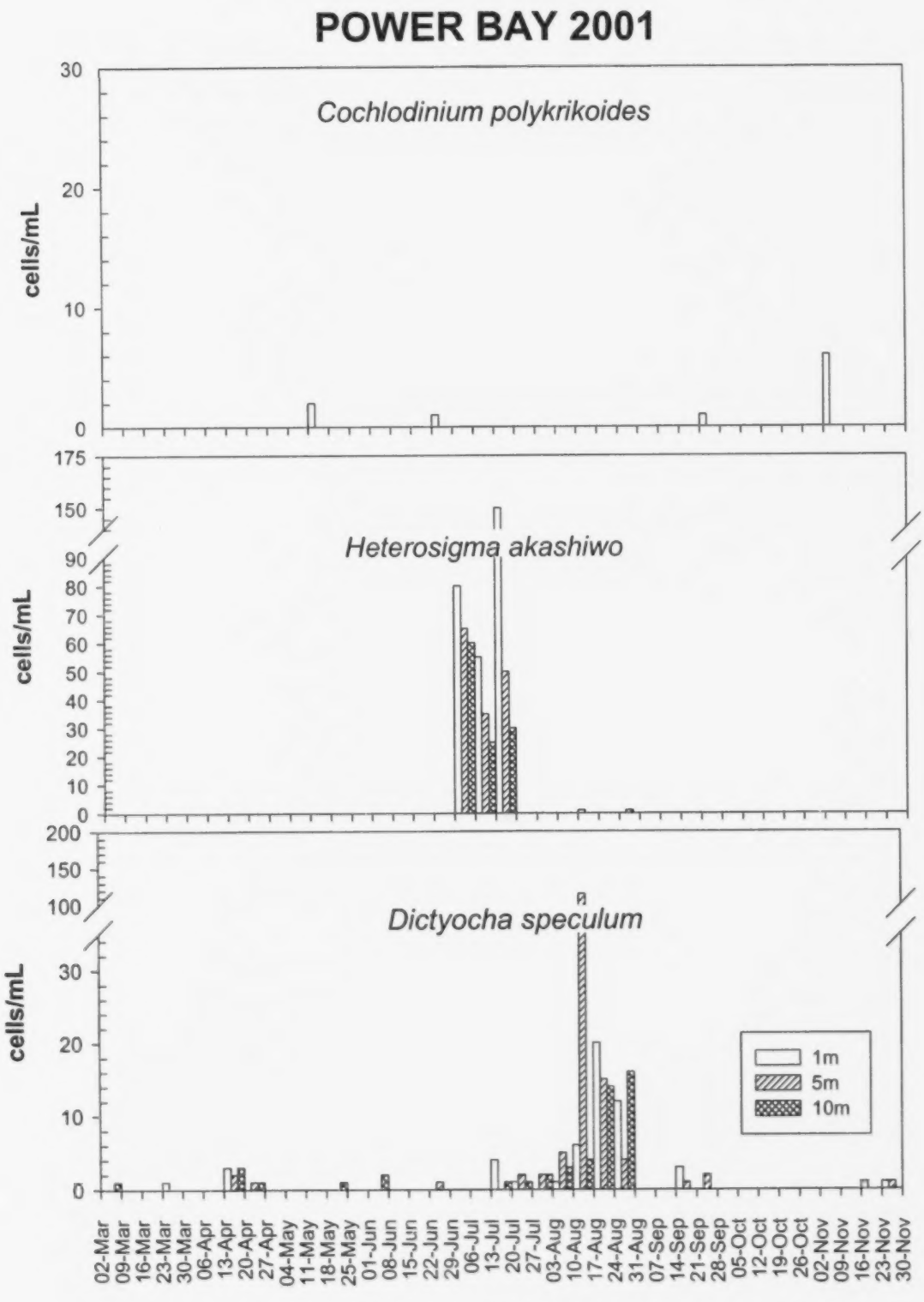

Figure 29: Harmful phytoplankton species in Power Bay samples.

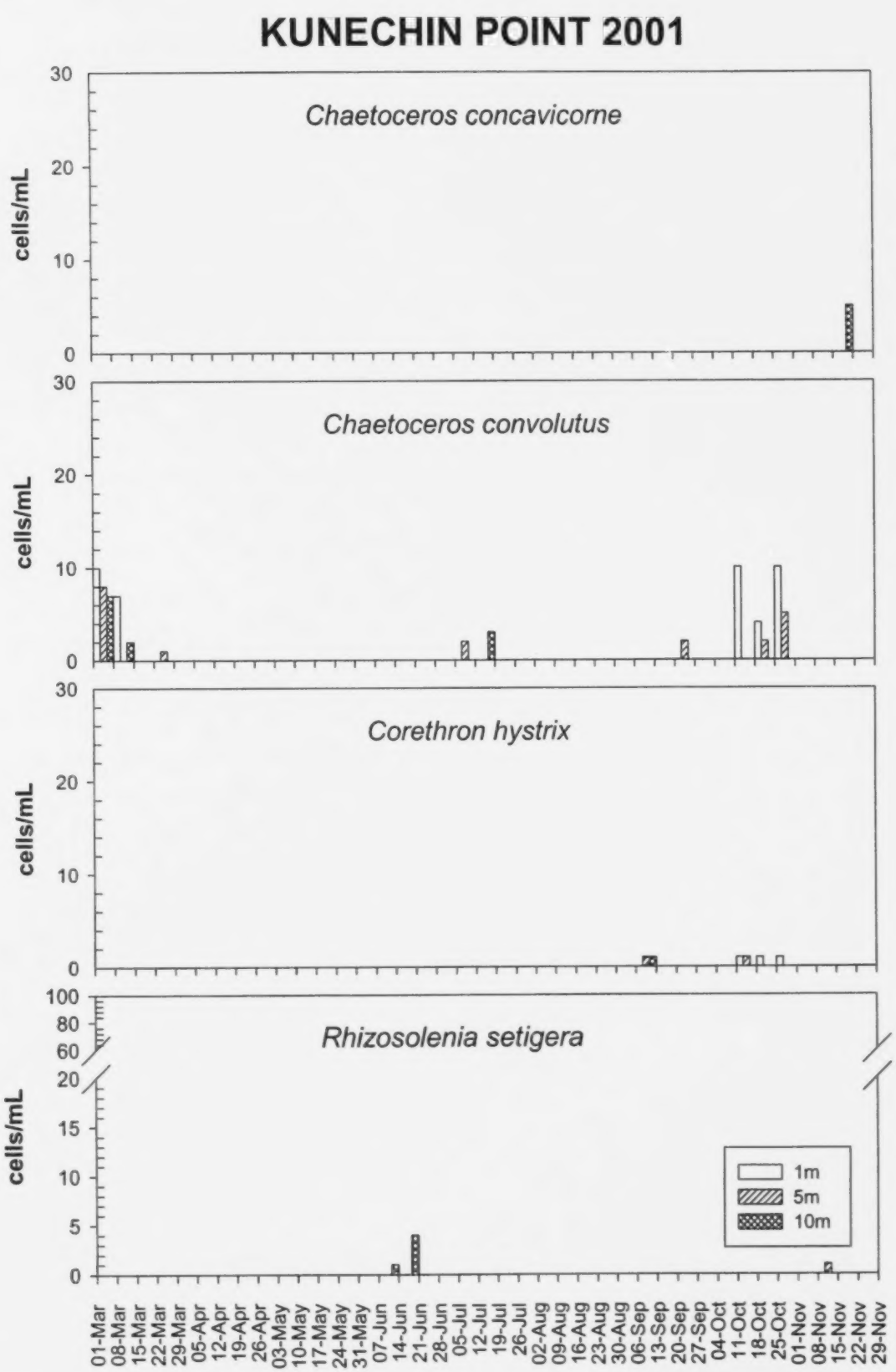

Figure 30: Harmful phytoplankton species in Kunechin Point samples.

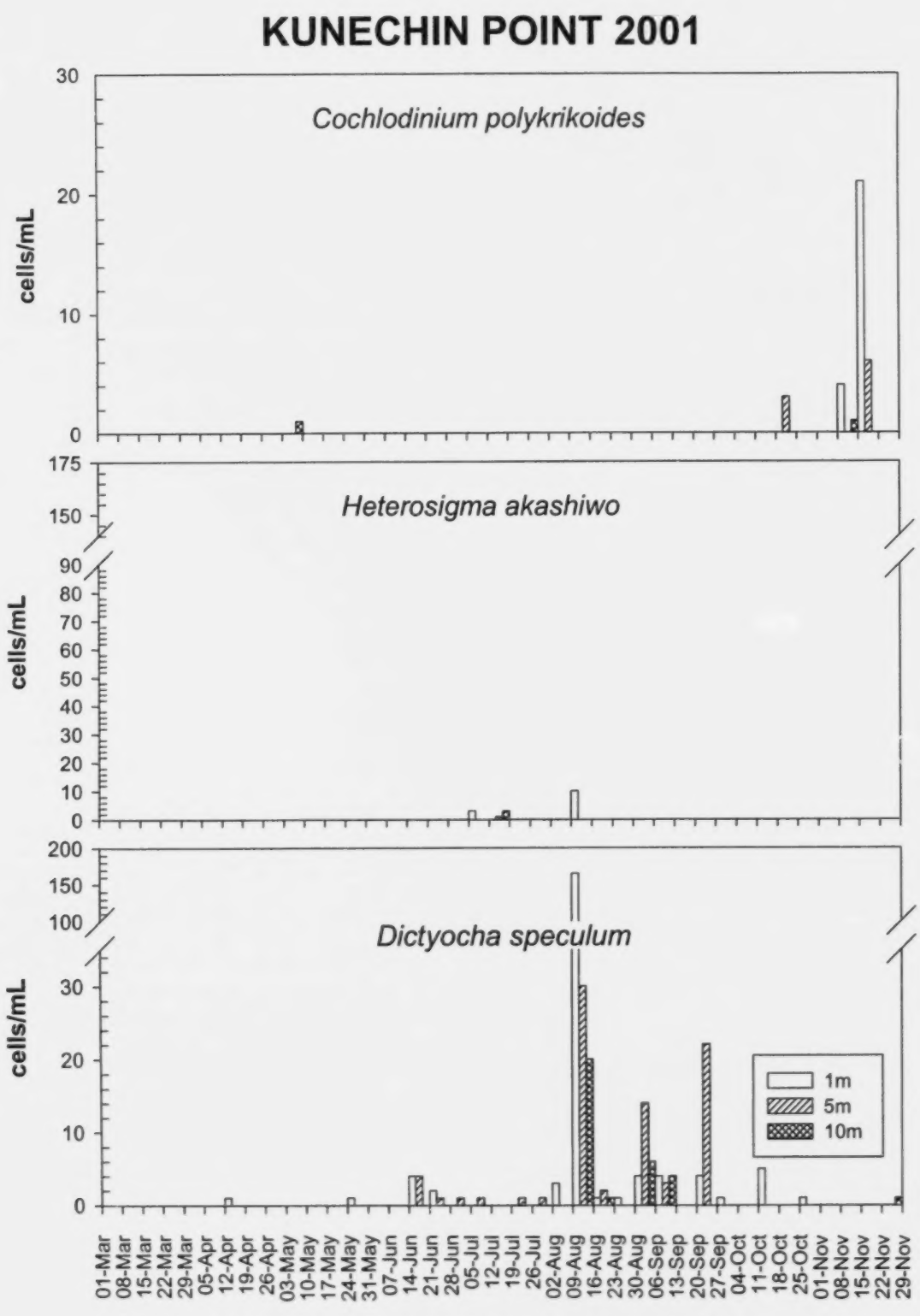

Figure 31: Harmful phytoplankton species in Kunechin Point samples.

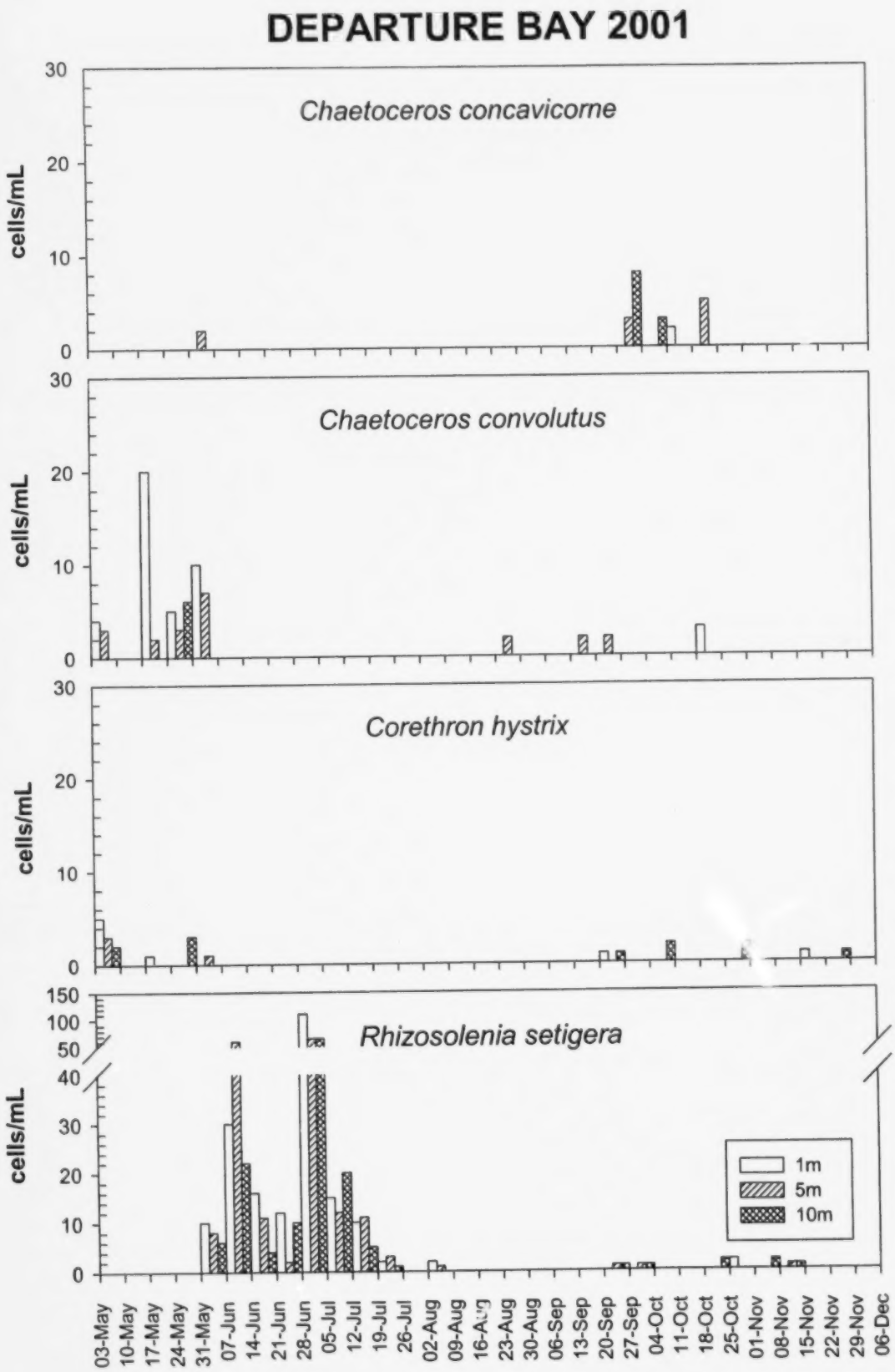

Figure 32: Harmful phytoplankton species in Deparature Bay samples.

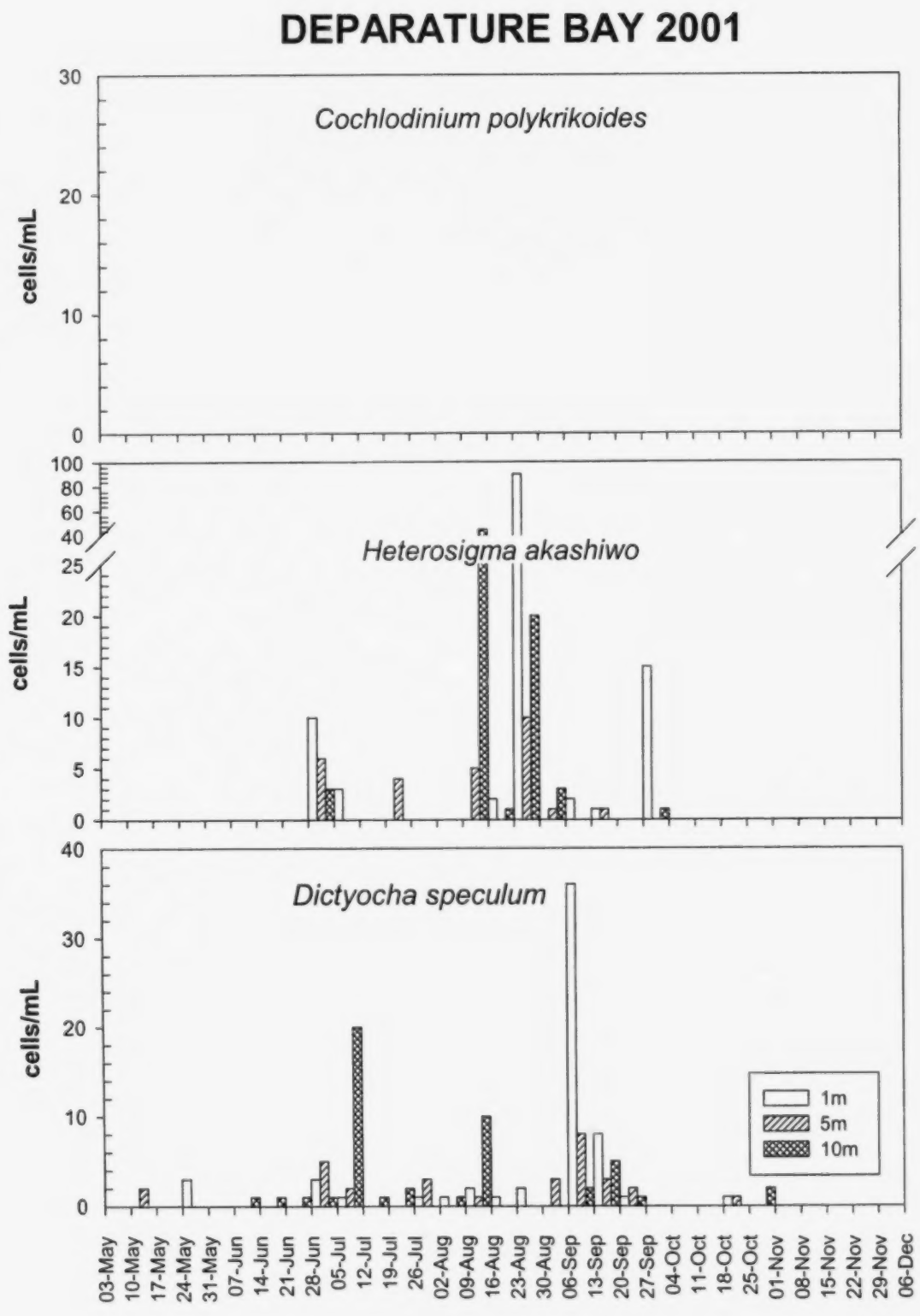

Figure 33: Harmful phytoplankton species in Deparature Bay samples.

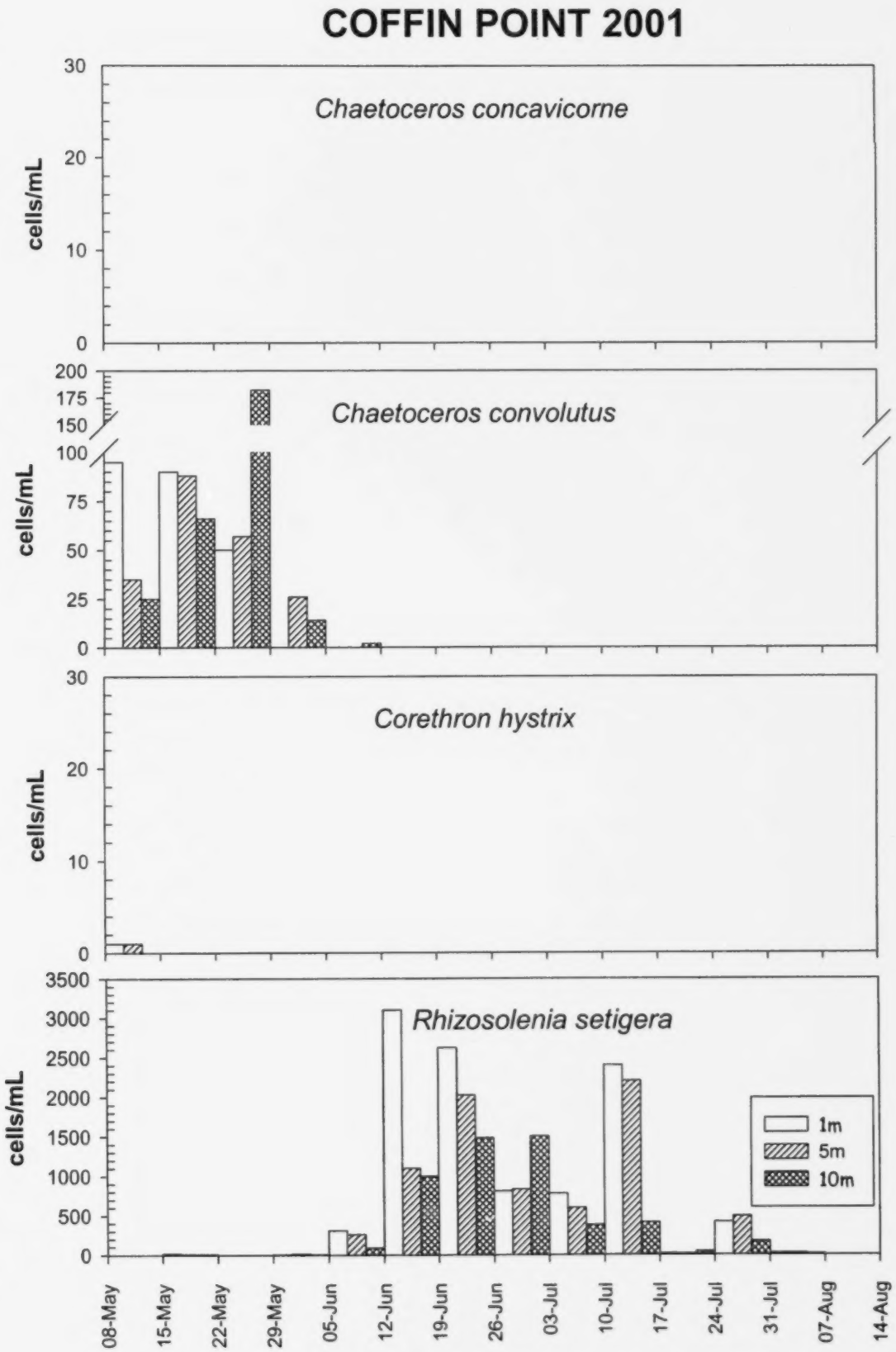

Figure 34: Harmful phytoplankton species in Coffin Point samples.

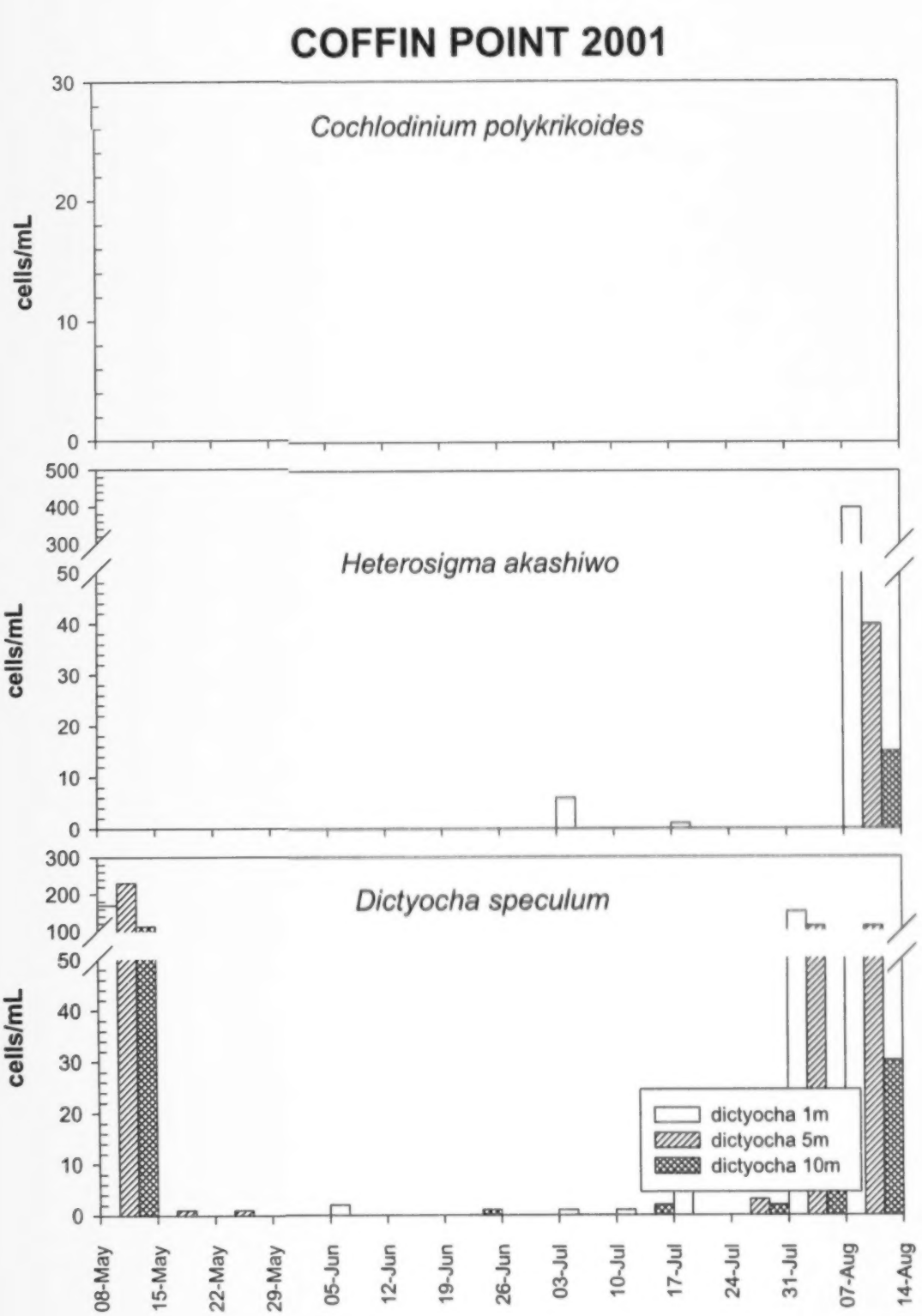

Figure 35: Harmful phytoplankton species in Coffin Point samples.

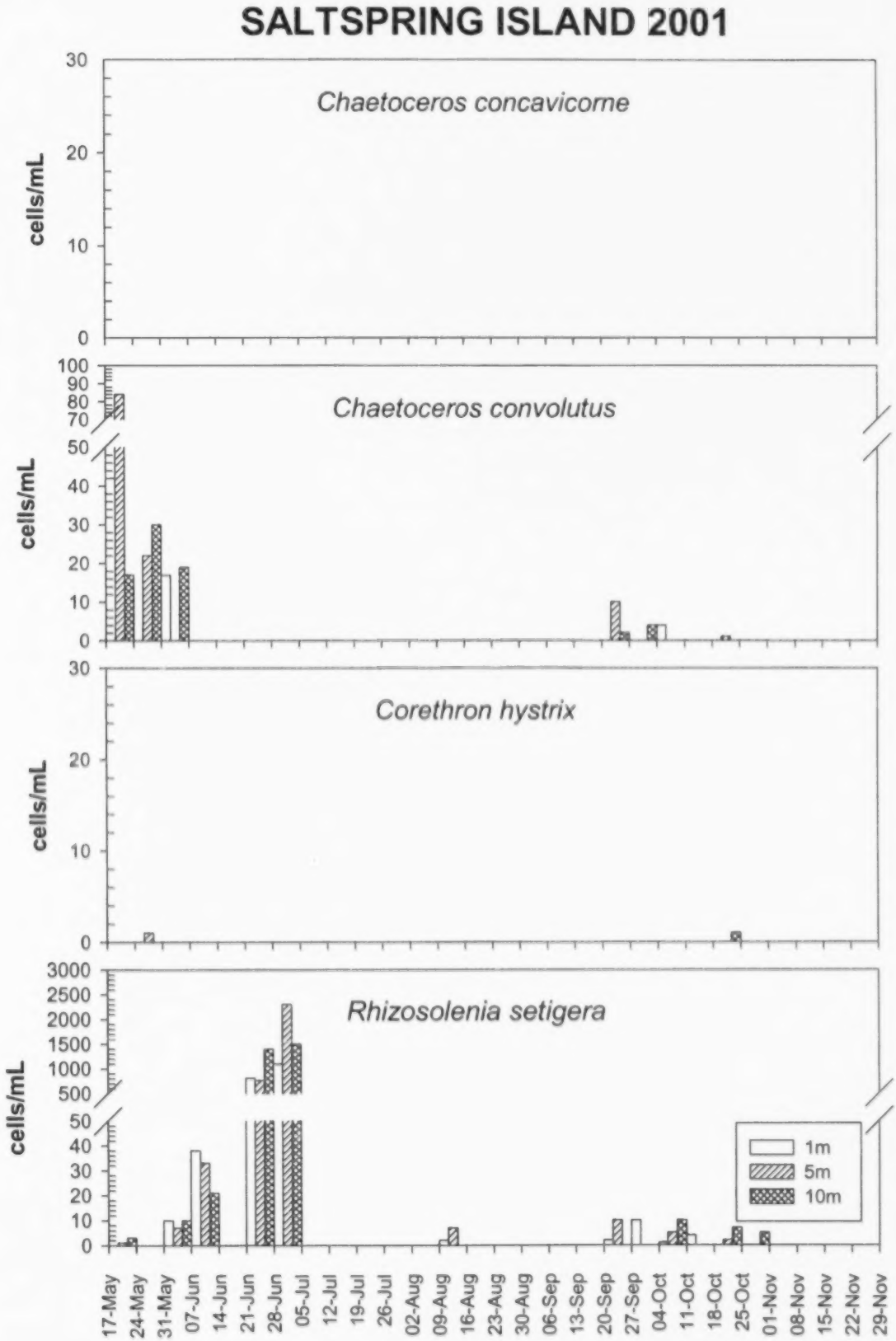

Figure 36: Harmful phytoplankton species in Saltspring Island samples.

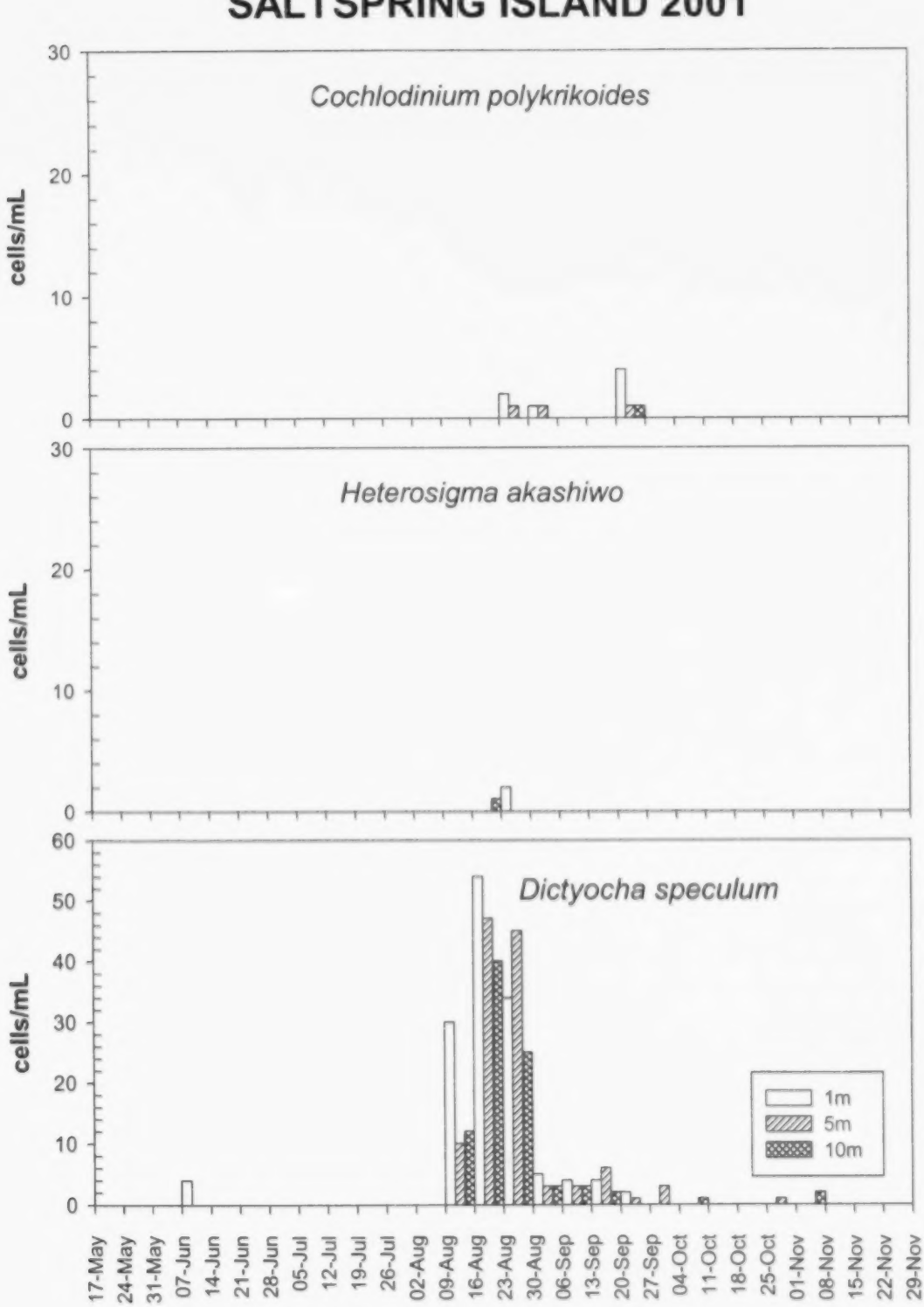

Figure 37: Harmful phytoplankton species in Saltspring Island samples.

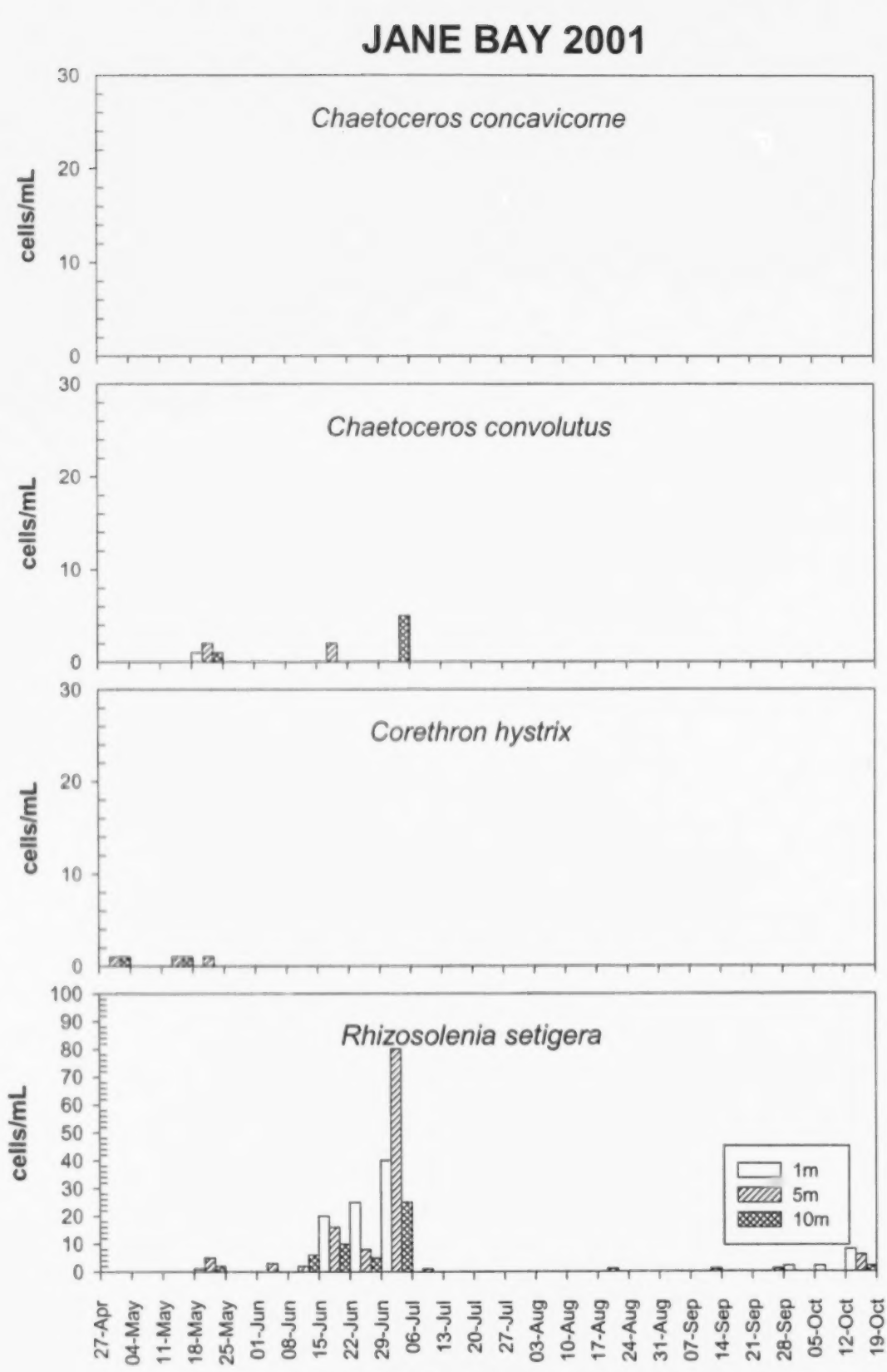

Figure 38: Harmful phytoplankton species in Jane Bay samples.

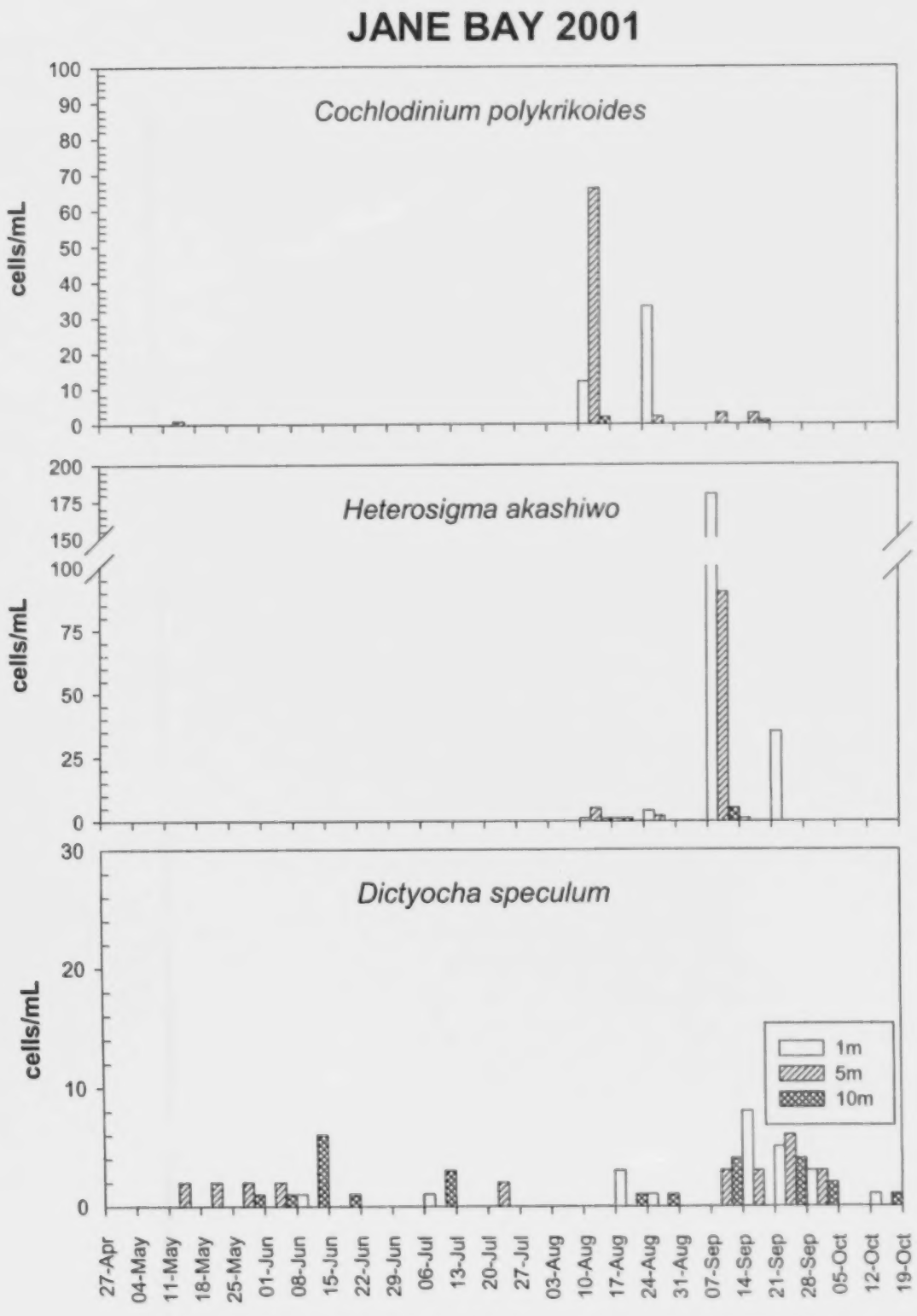

Figure 39: Harmful phytoplankton species in Jane Bay samples.

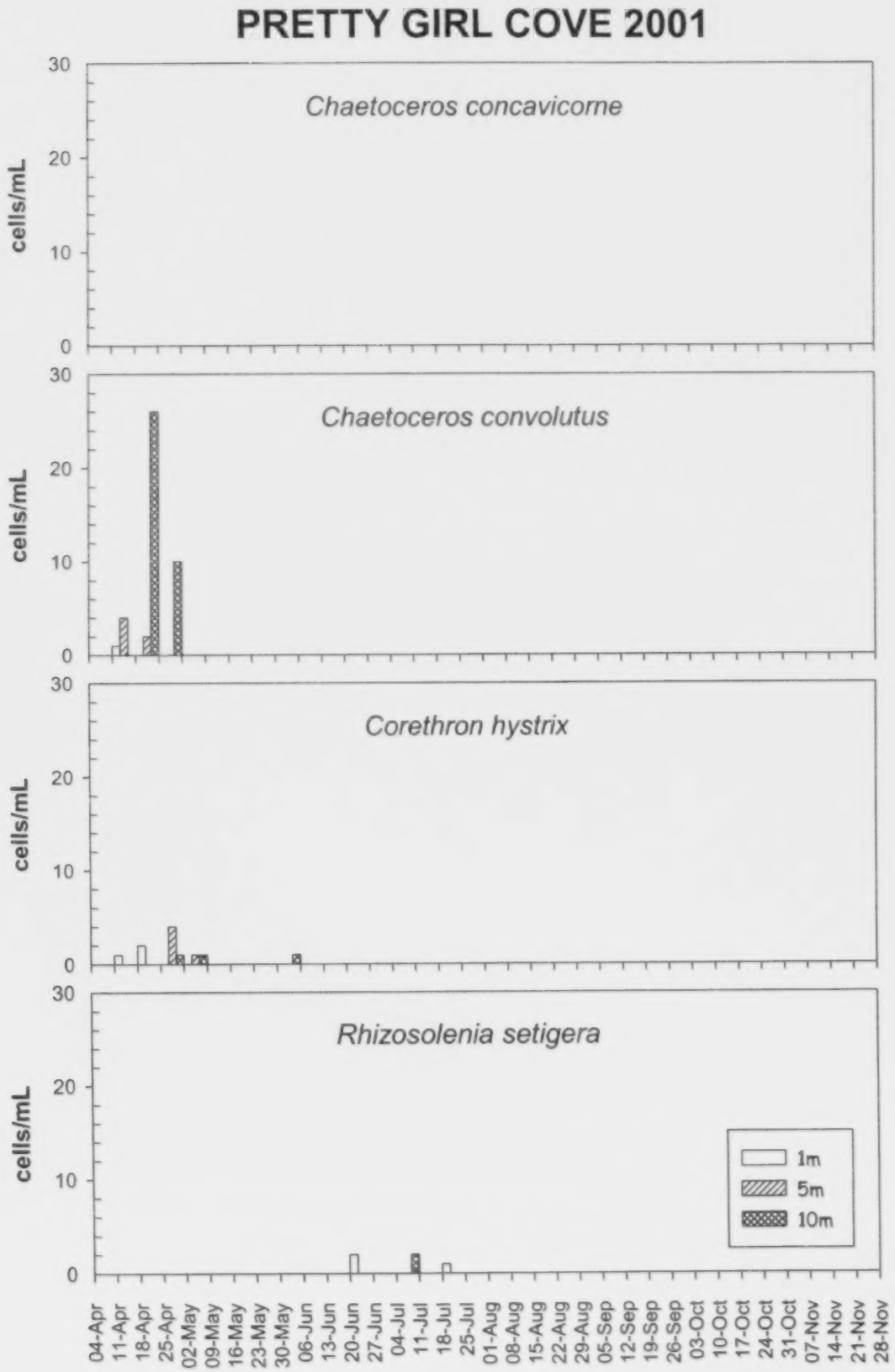

Figure 40: Harmful phytoplankton species in Pretty Girl Cove samples.

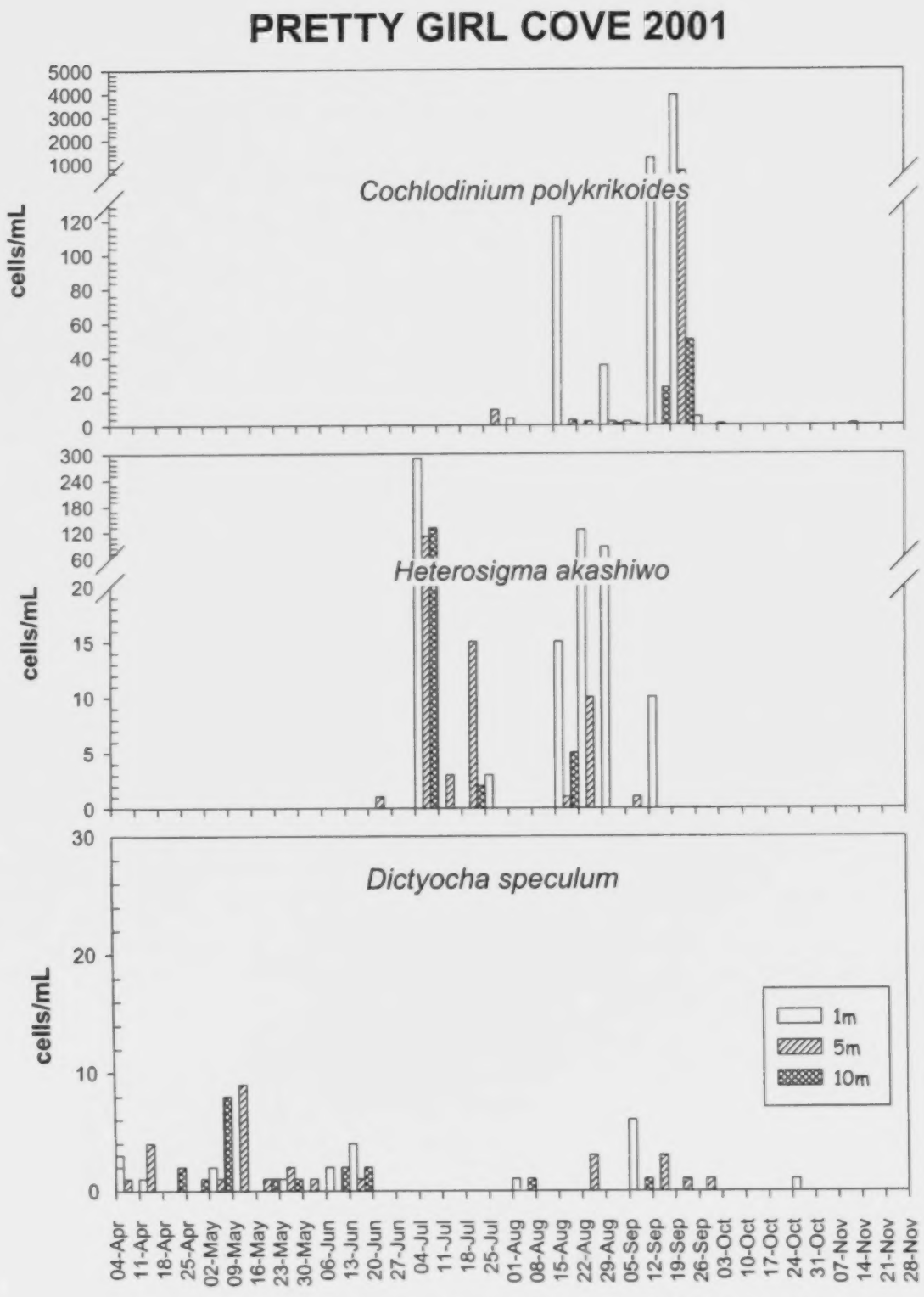

Figure 41: Harmful phytoplankton species in Pretty Girl Cove samples.

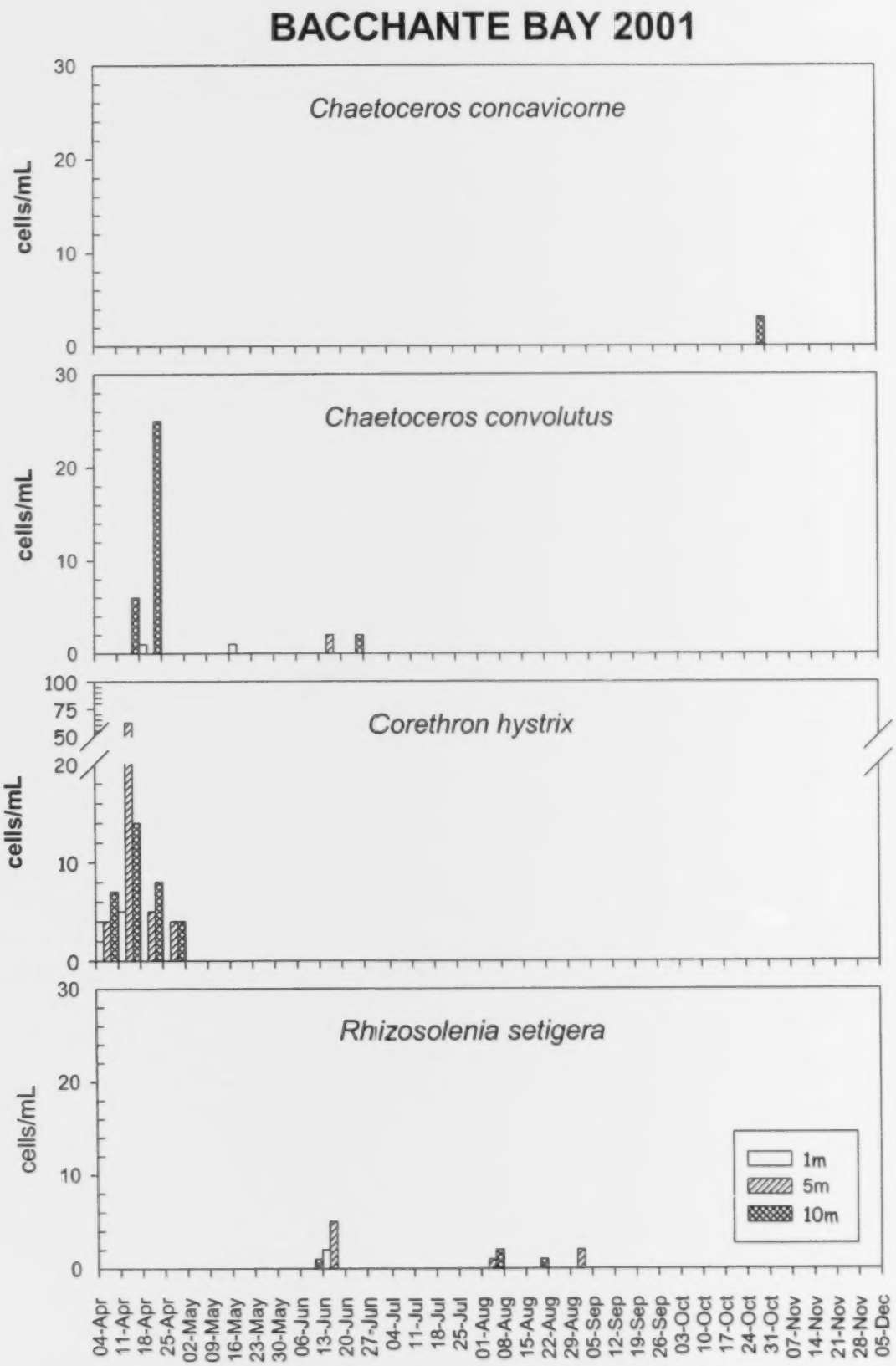

Figure 42: Harmful phytoplankton species in Bacchante Bay samples.

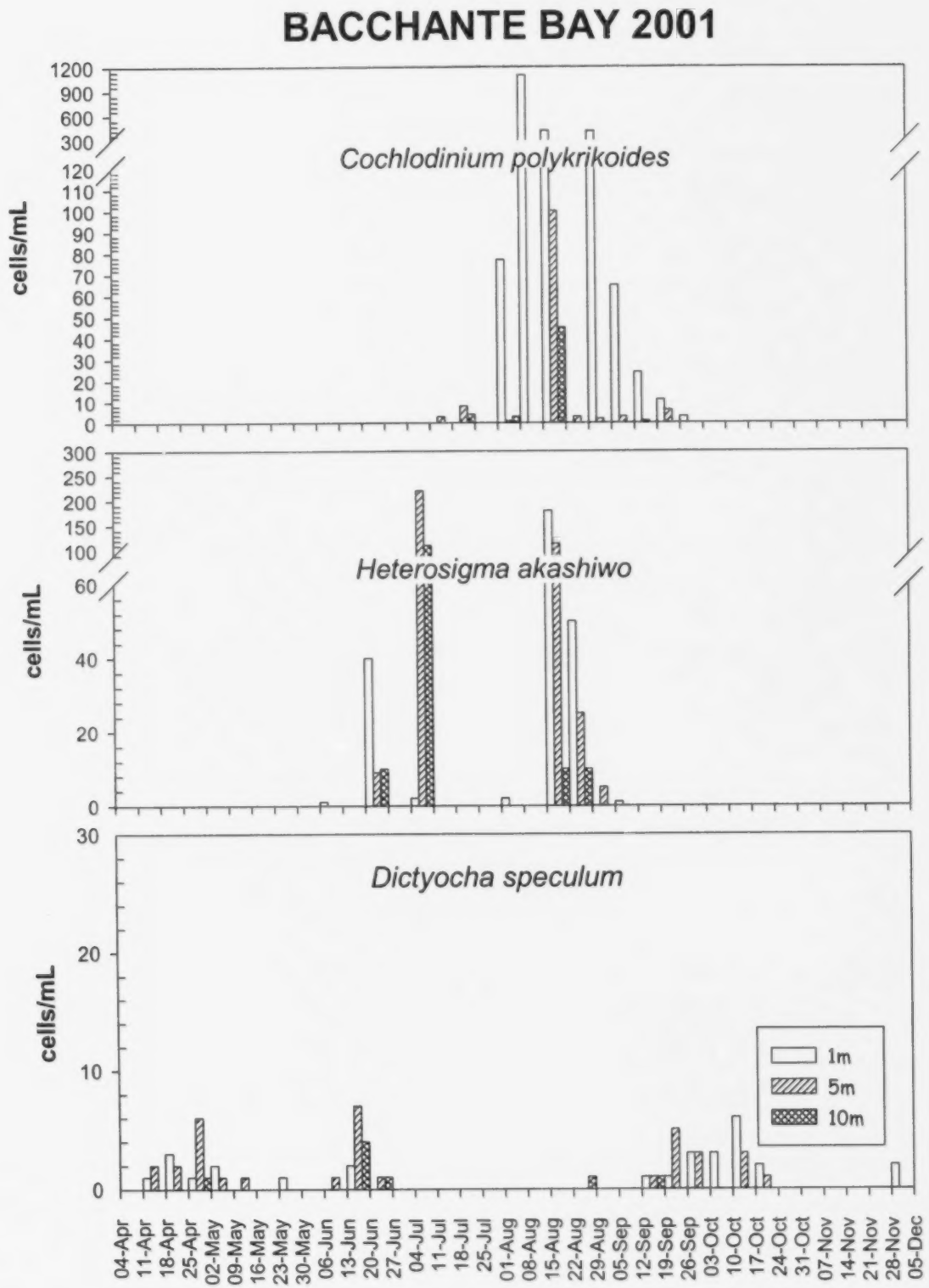

Figure 43: Harmful phytoplankton species in Bacchante Bay samples.

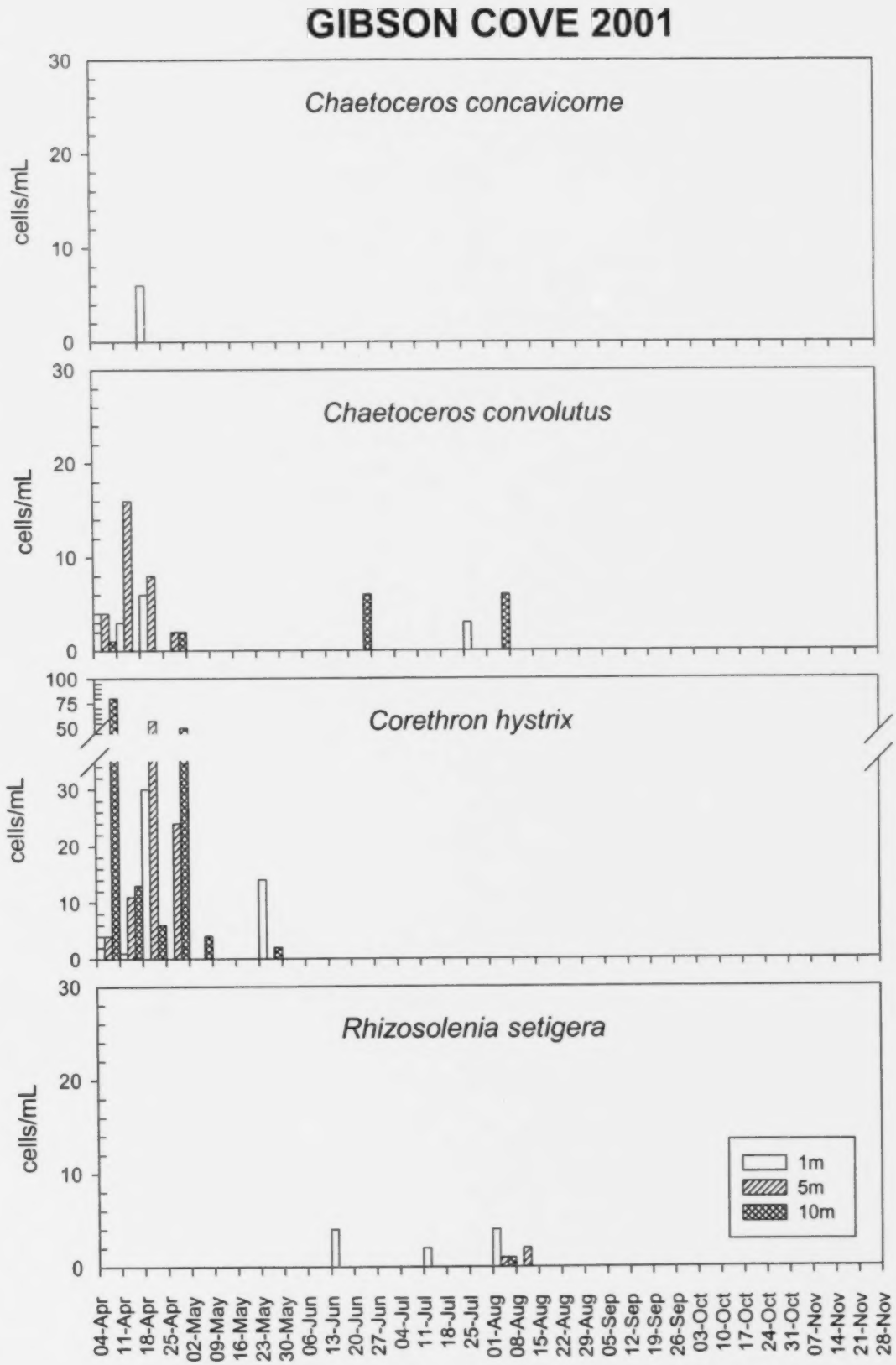

Figure 44: Harmful phytoplankton species in Gibson Cove samples.

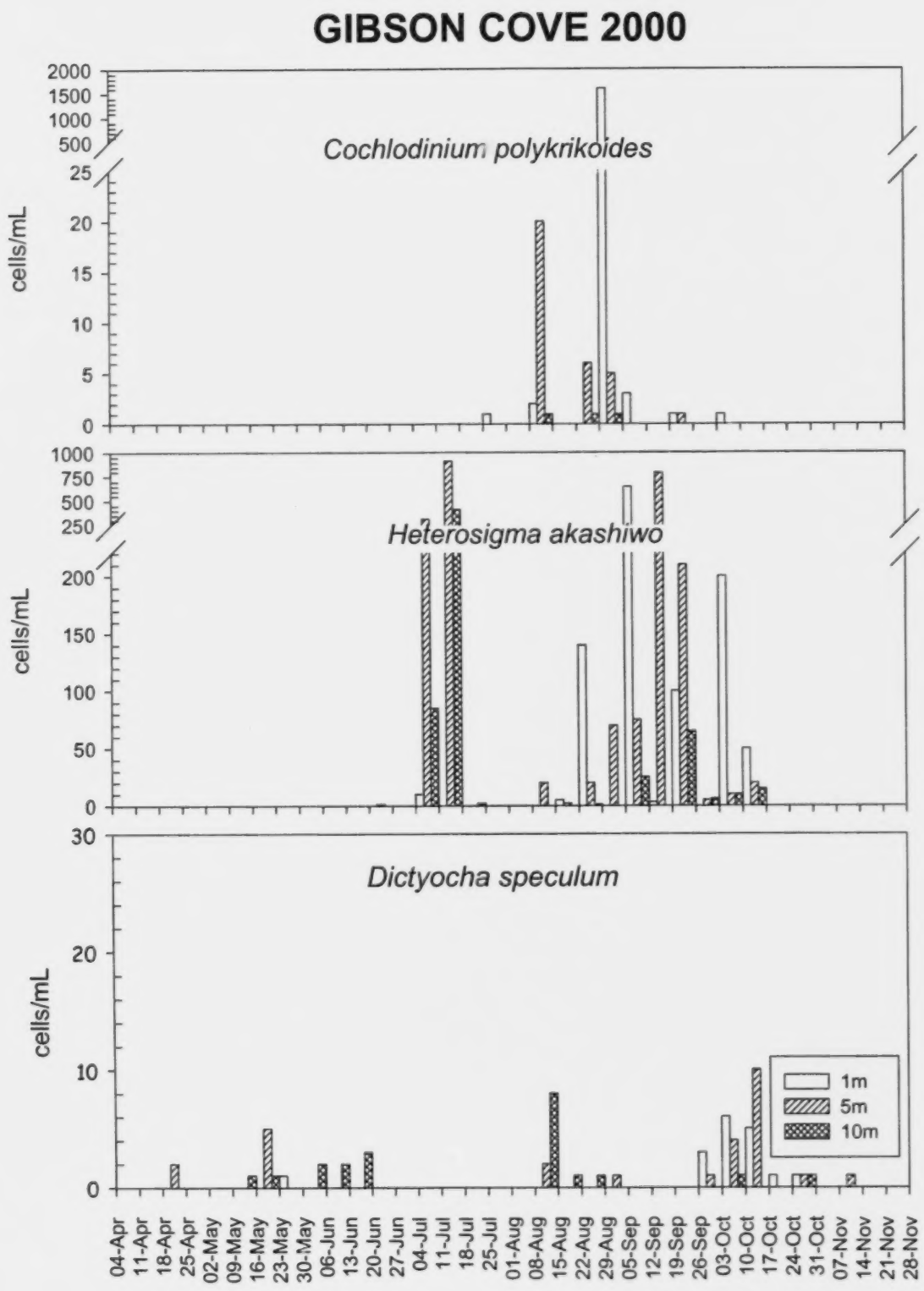

Figure 45: Harmful phytoplankton species in Gibson Cove samples.

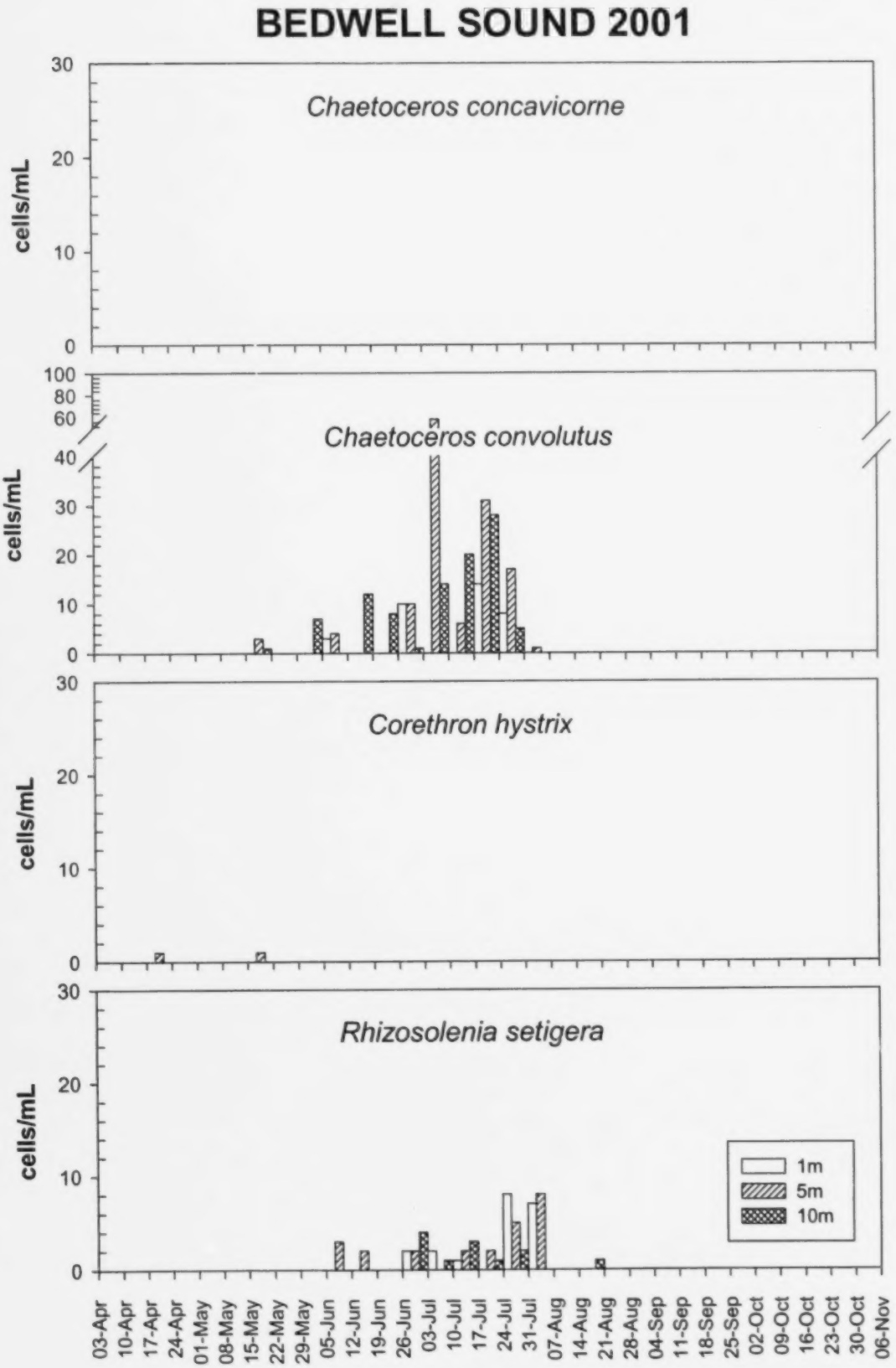

Figure 46: Harmful phytoplankton species in Bedwell Sound samples.

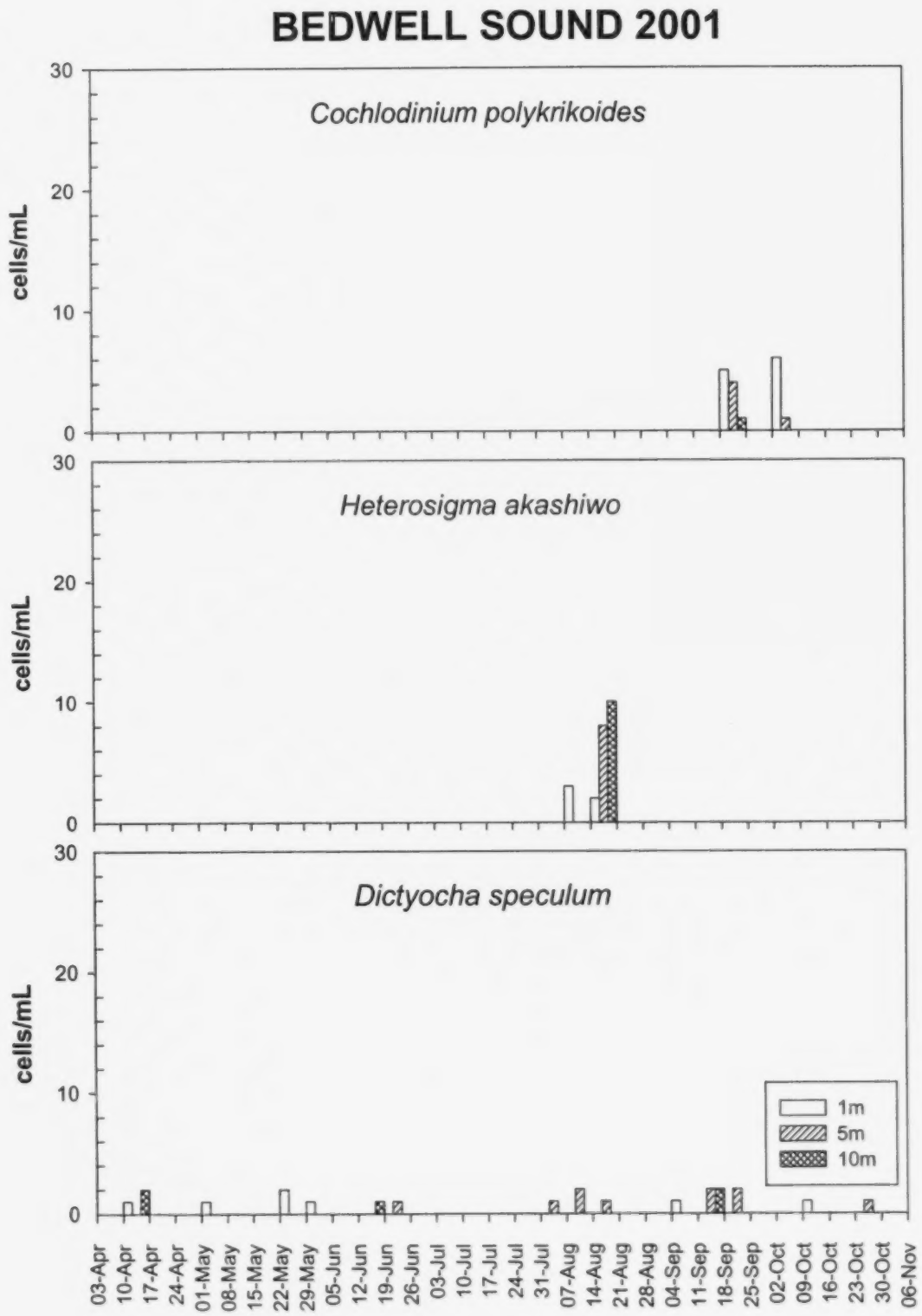

Figure 47: Harmful phytoplankton species in Bedwell Sound samples.

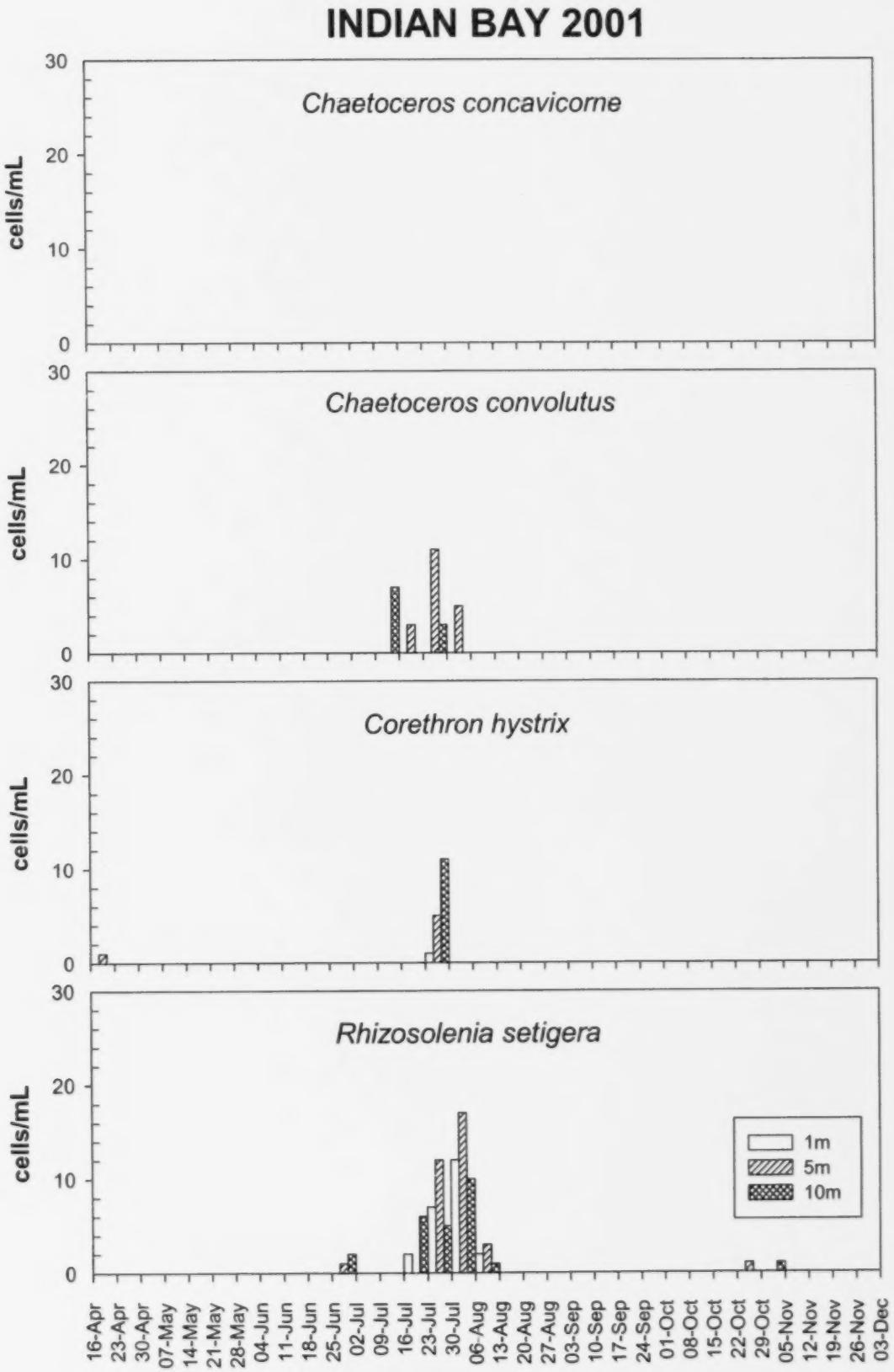

Figure 48: Harmful phytoplankton species in Indian Bay samples.

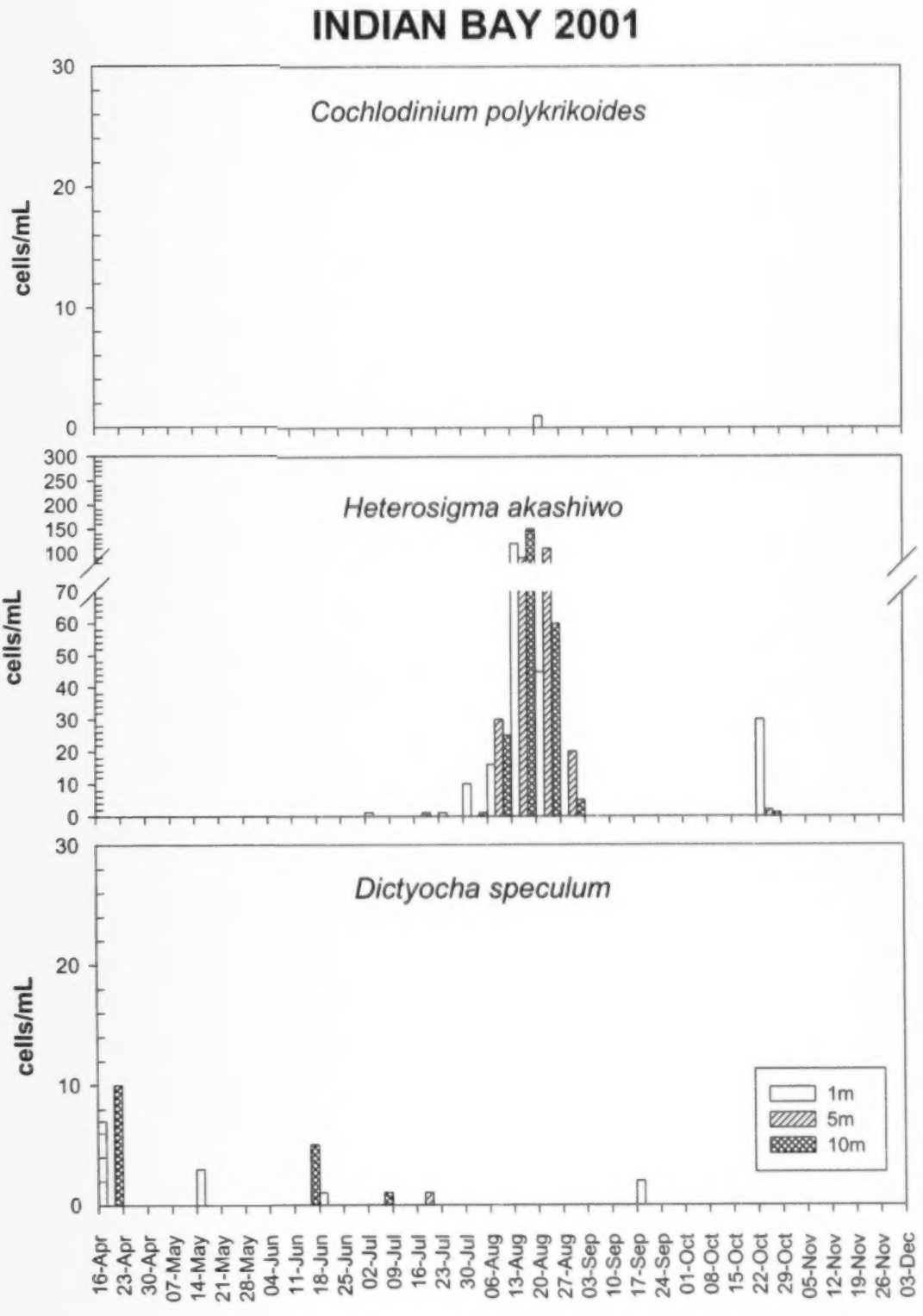

Figure 49: Harmful phytoplankton species in Indian Bay samples.

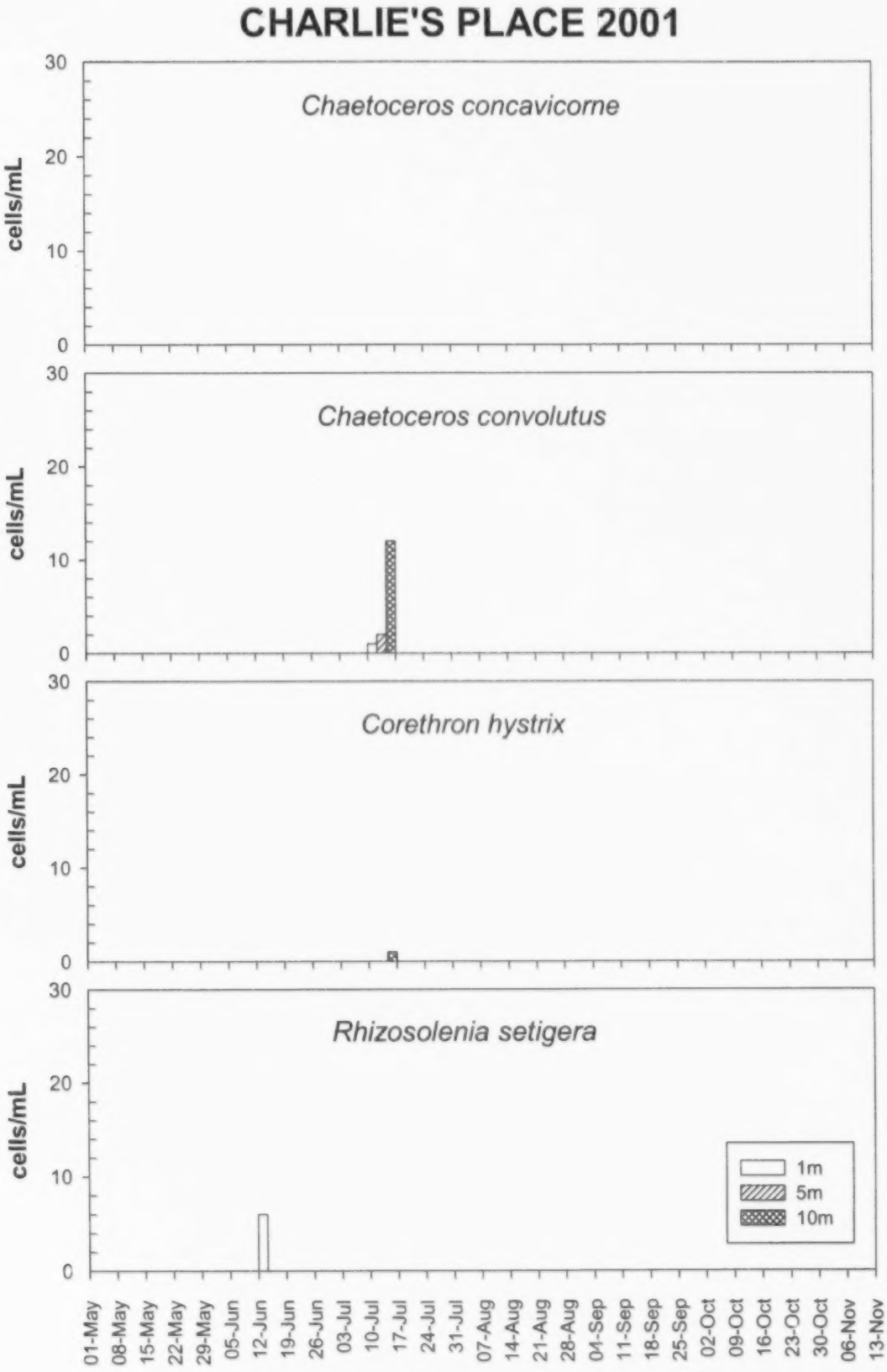

Figure 50: Harmful phytoplankton species in Charlie's Place samples.

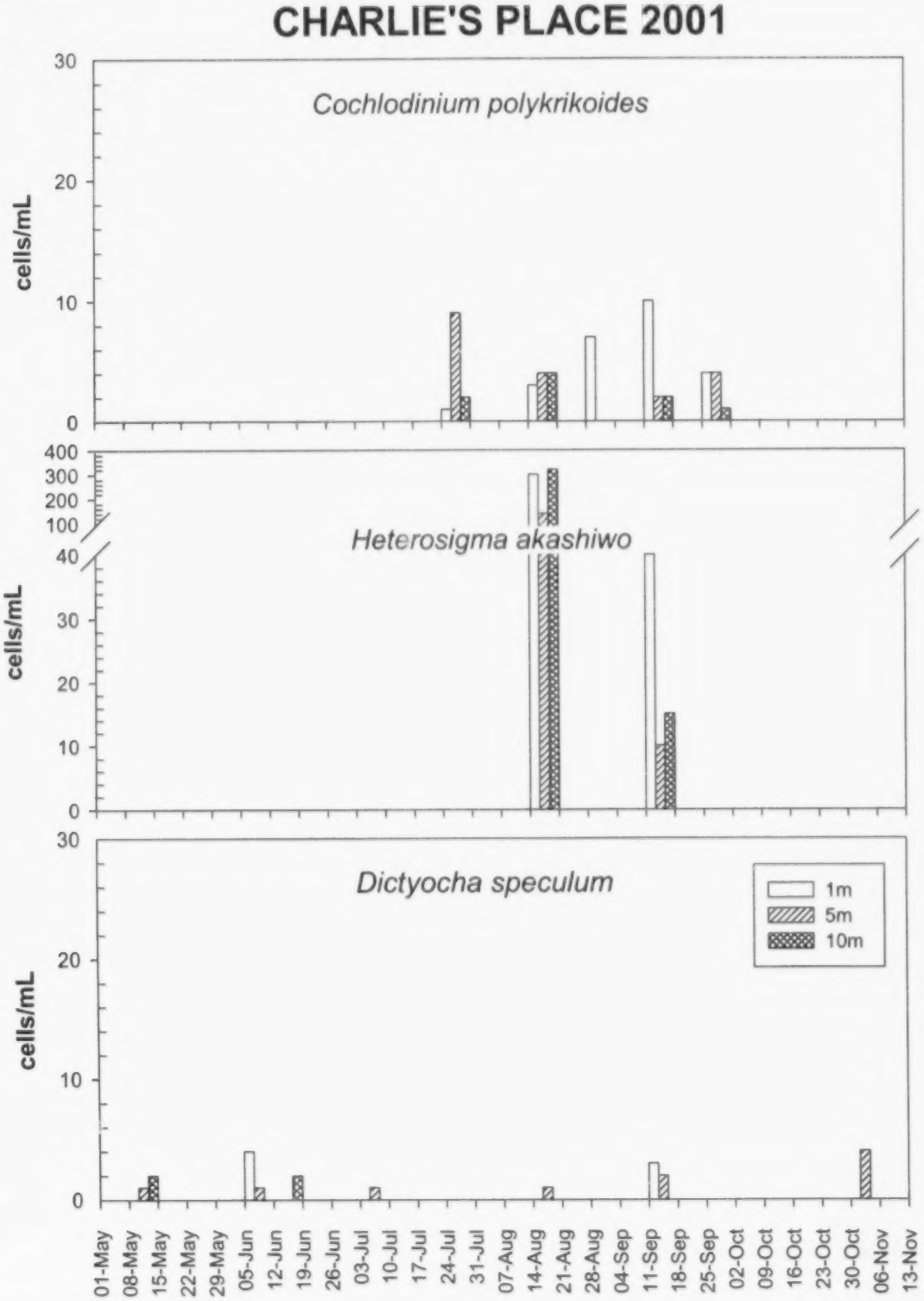

Figure 51: Harmful phytoplankton species in Charlie's Place samples.

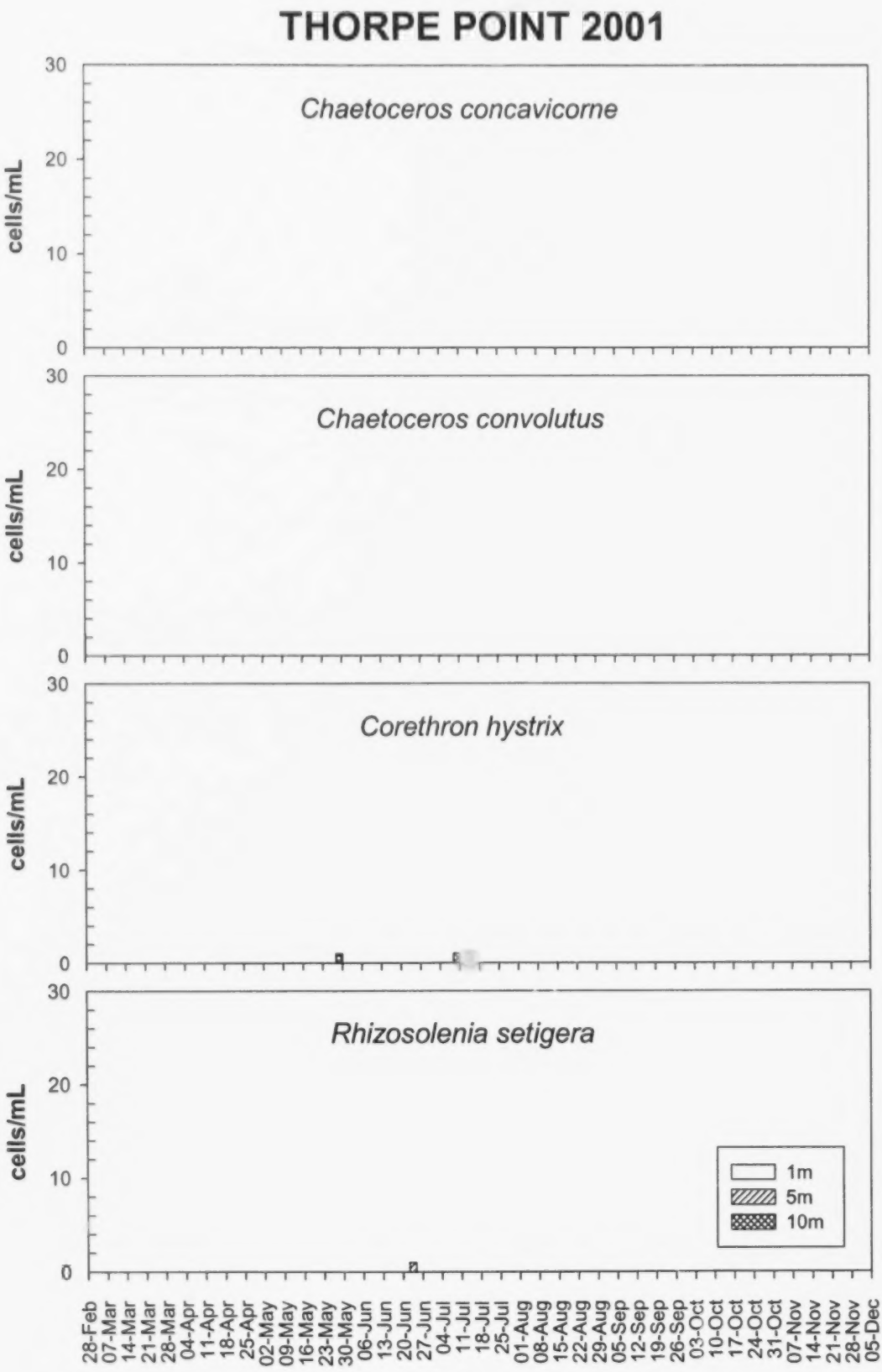

Figure 52: Harmful phytoplankton species in Thorpe Point samples.

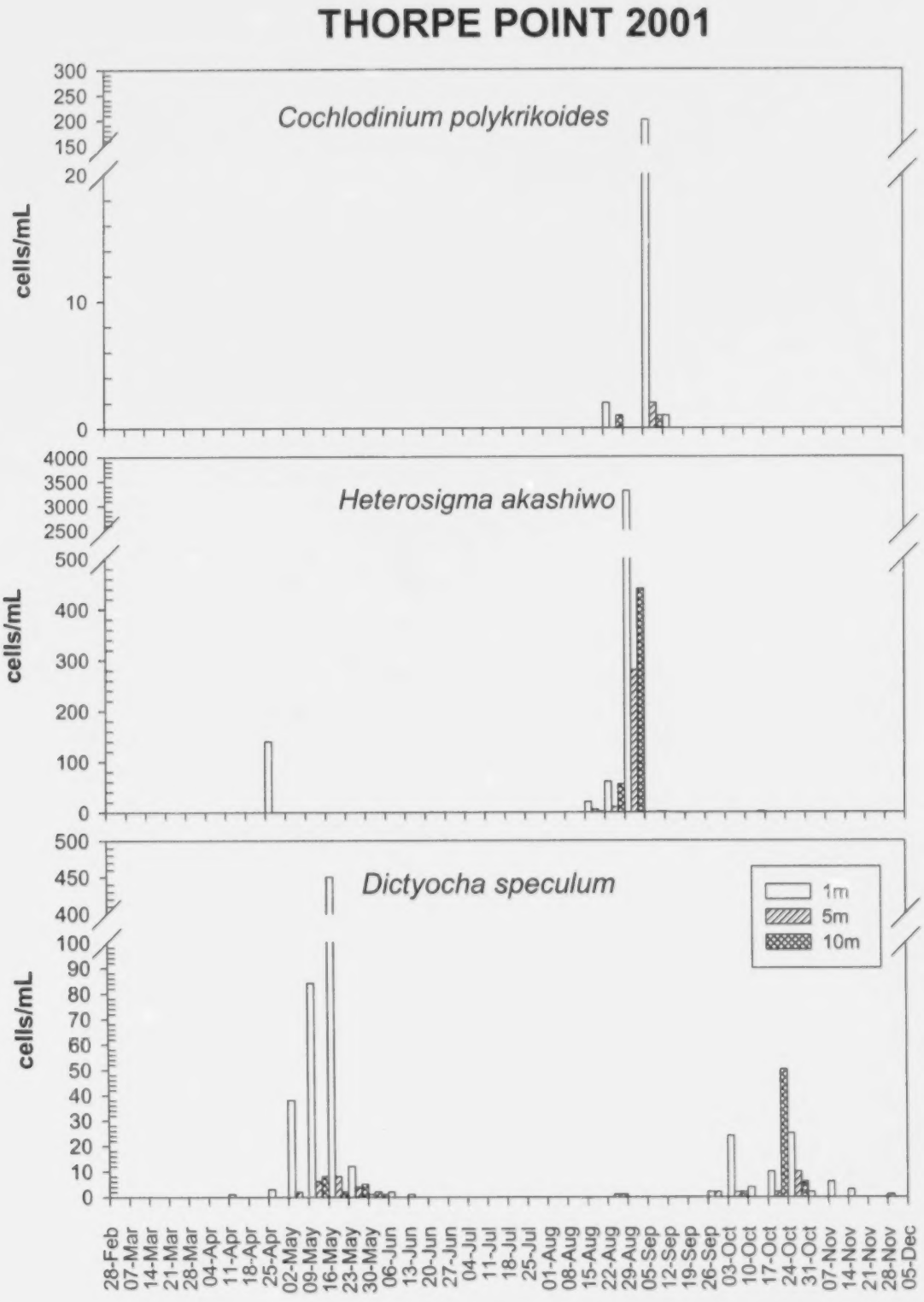

Figure 53: Harmful phytoplankton species in Thorpe Point samples.

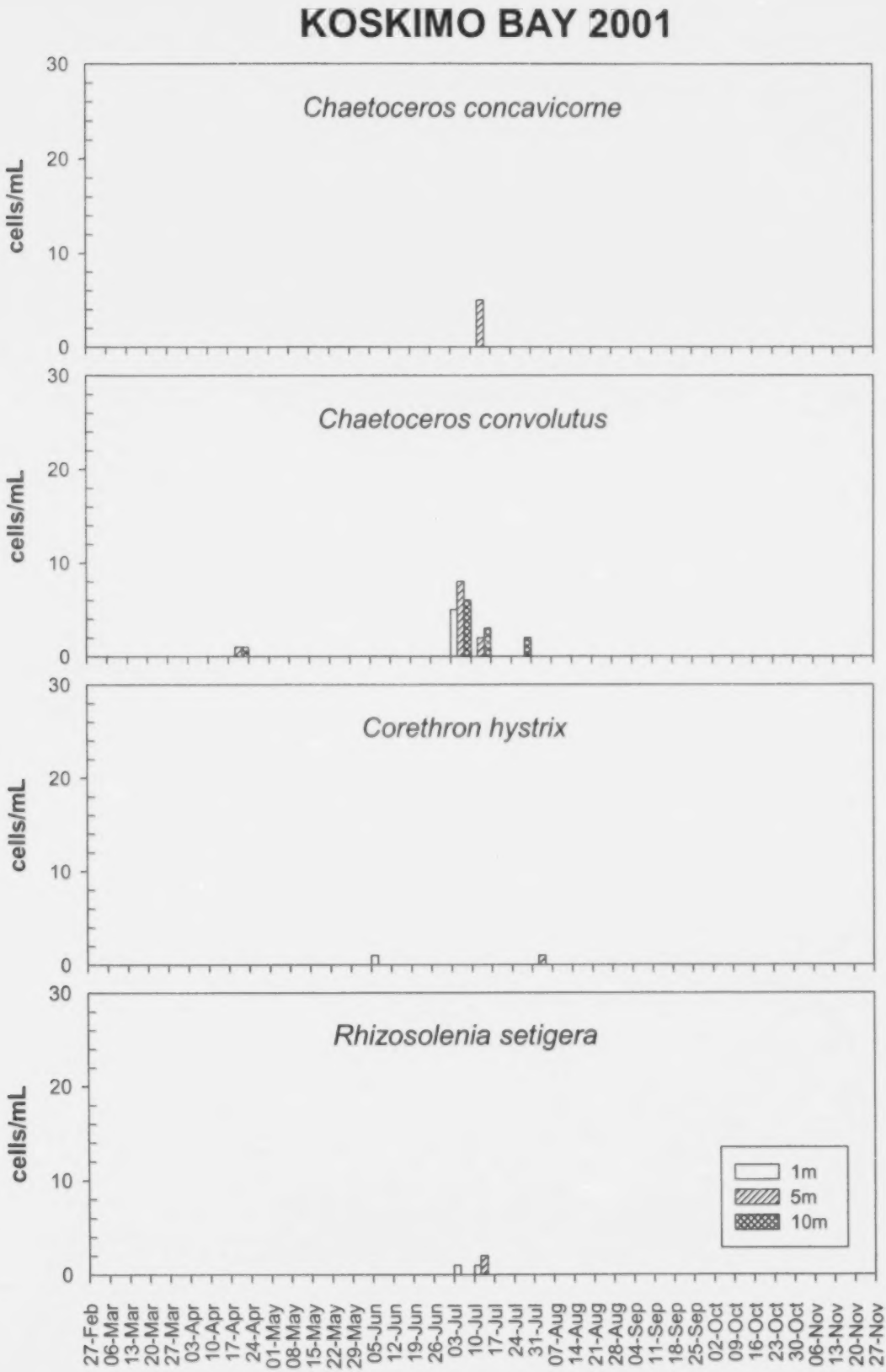

Figure 54: Harmful phytoplankton species in Koskimo Bay samples.

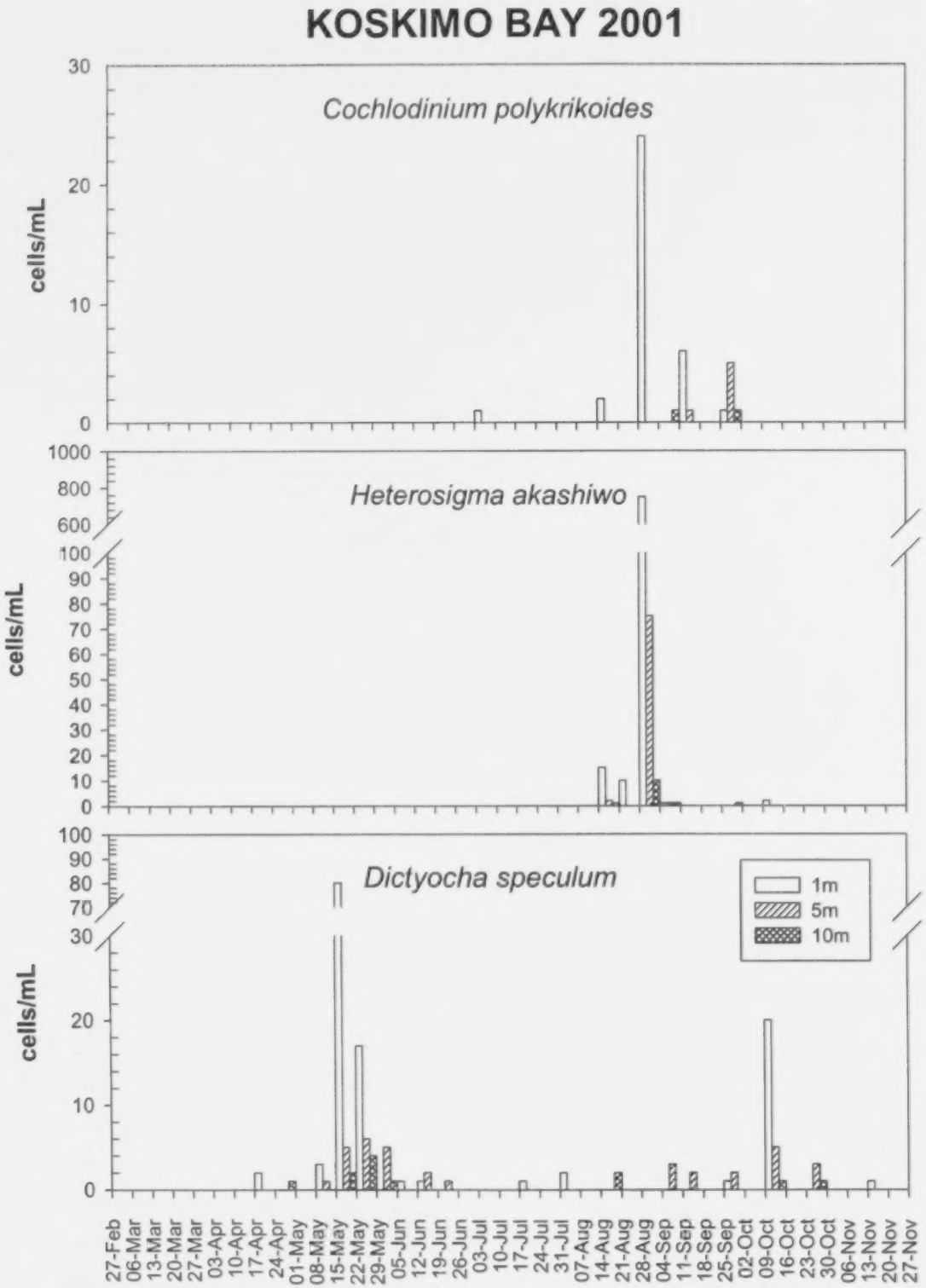

Figure 55: Harmful phytoplankton species in Koskimo Bay samples.

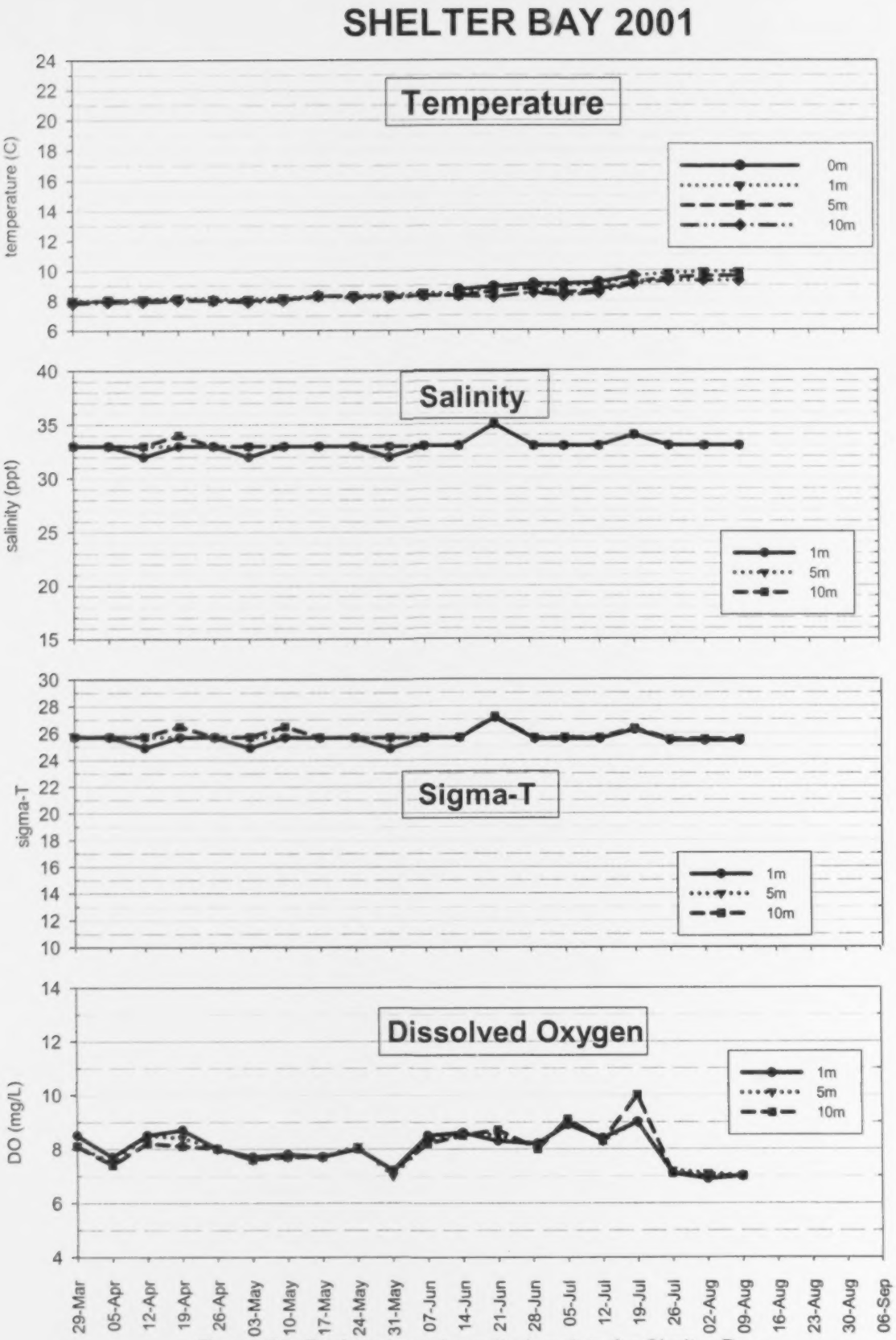

Figure 56: Environmental monitoring data for Shelter Bay.

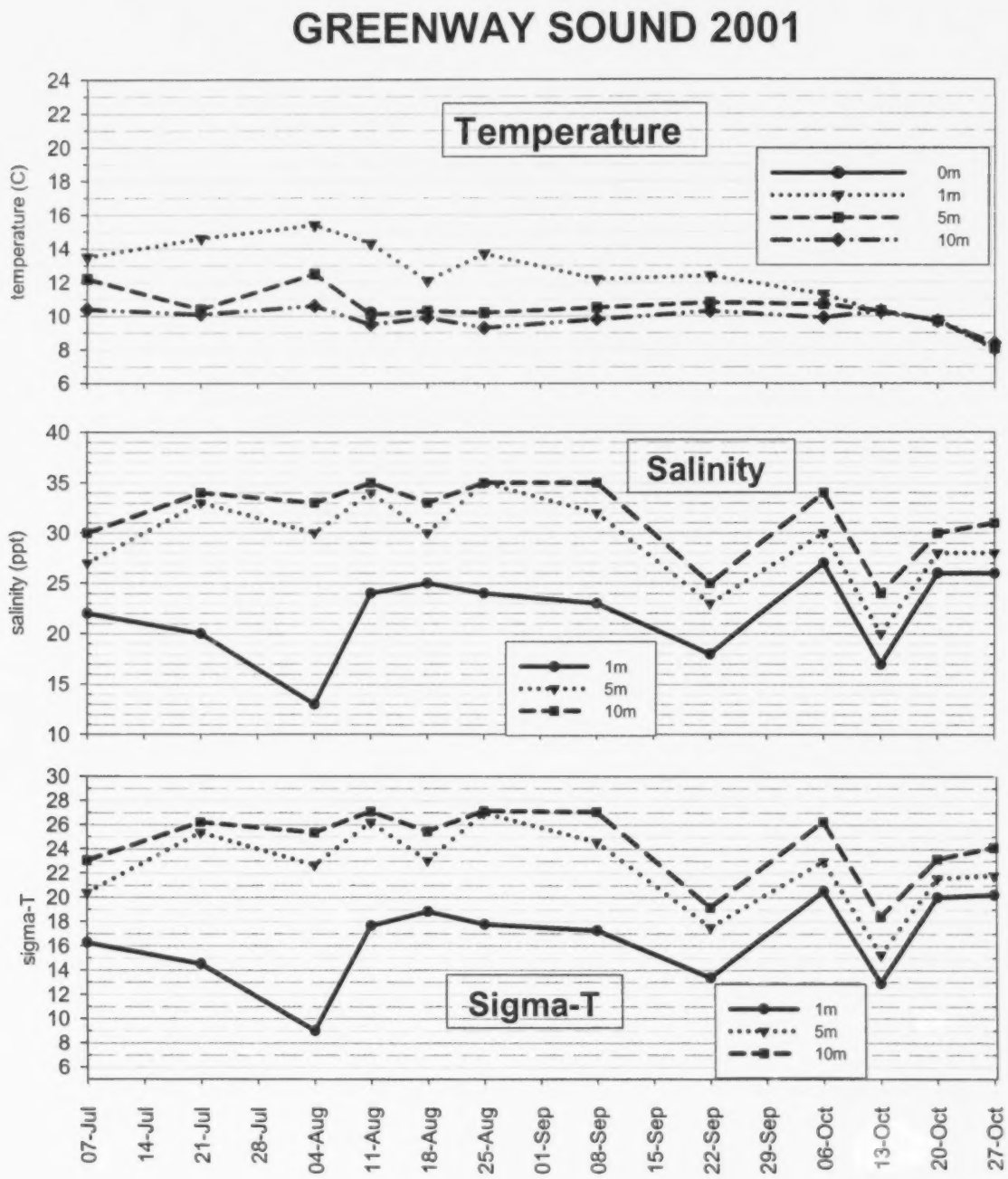

Figure 57: Environmental monitoring data for Greenway Sound.

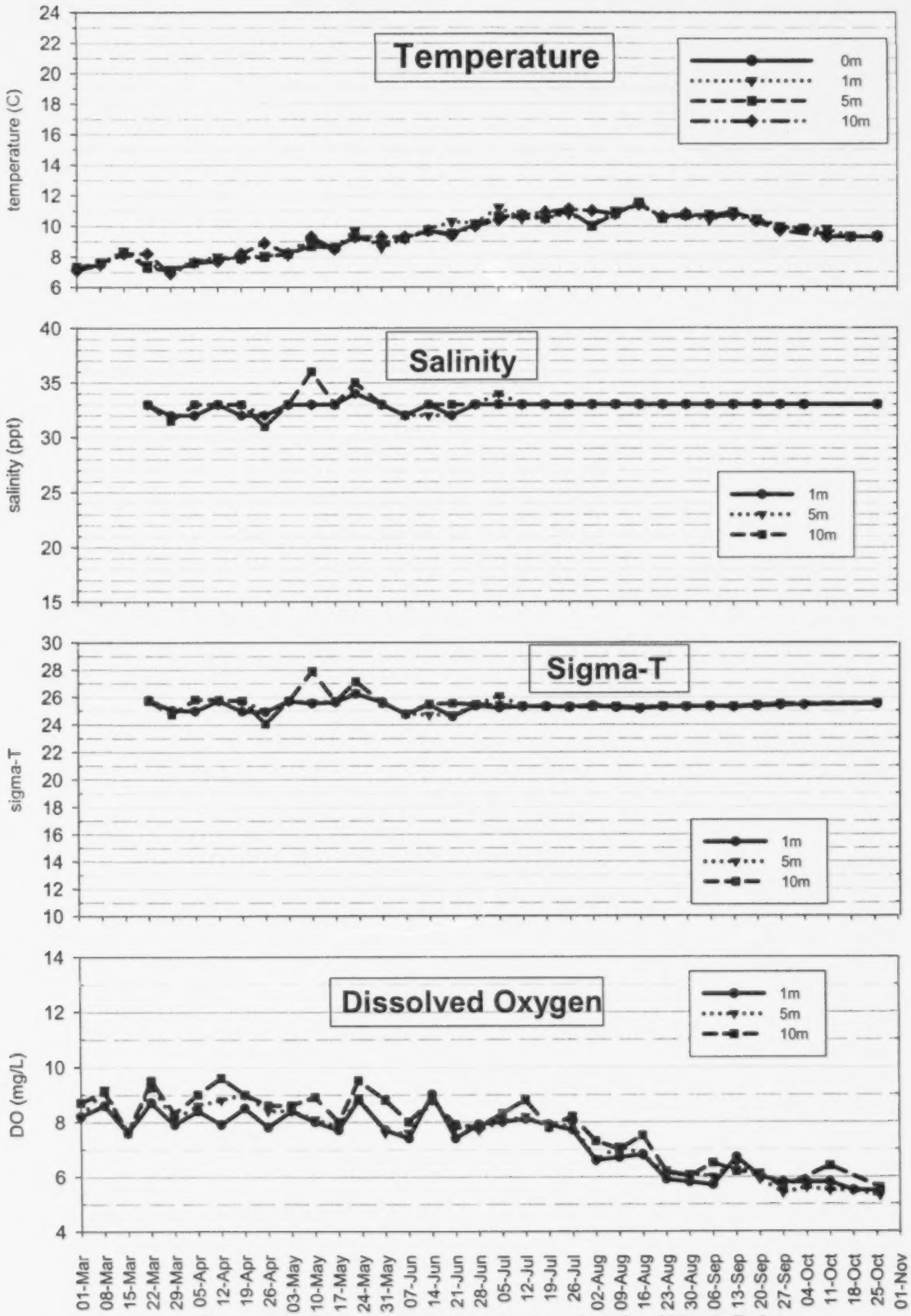

Figure 58: Environmental monitoring data for Althorp Point.

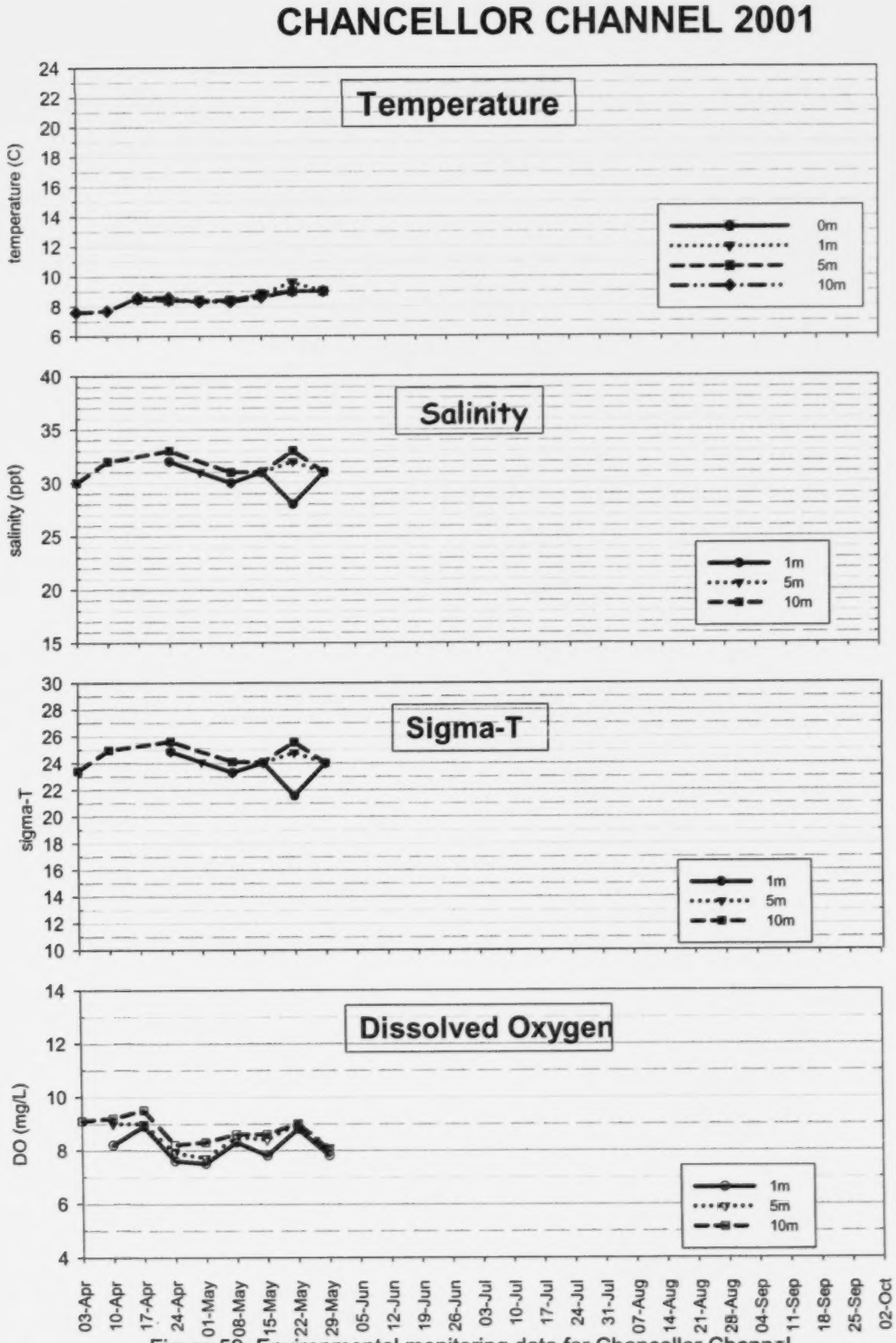

Figure 59: Environmental monitoring data for Chancellor Channel.

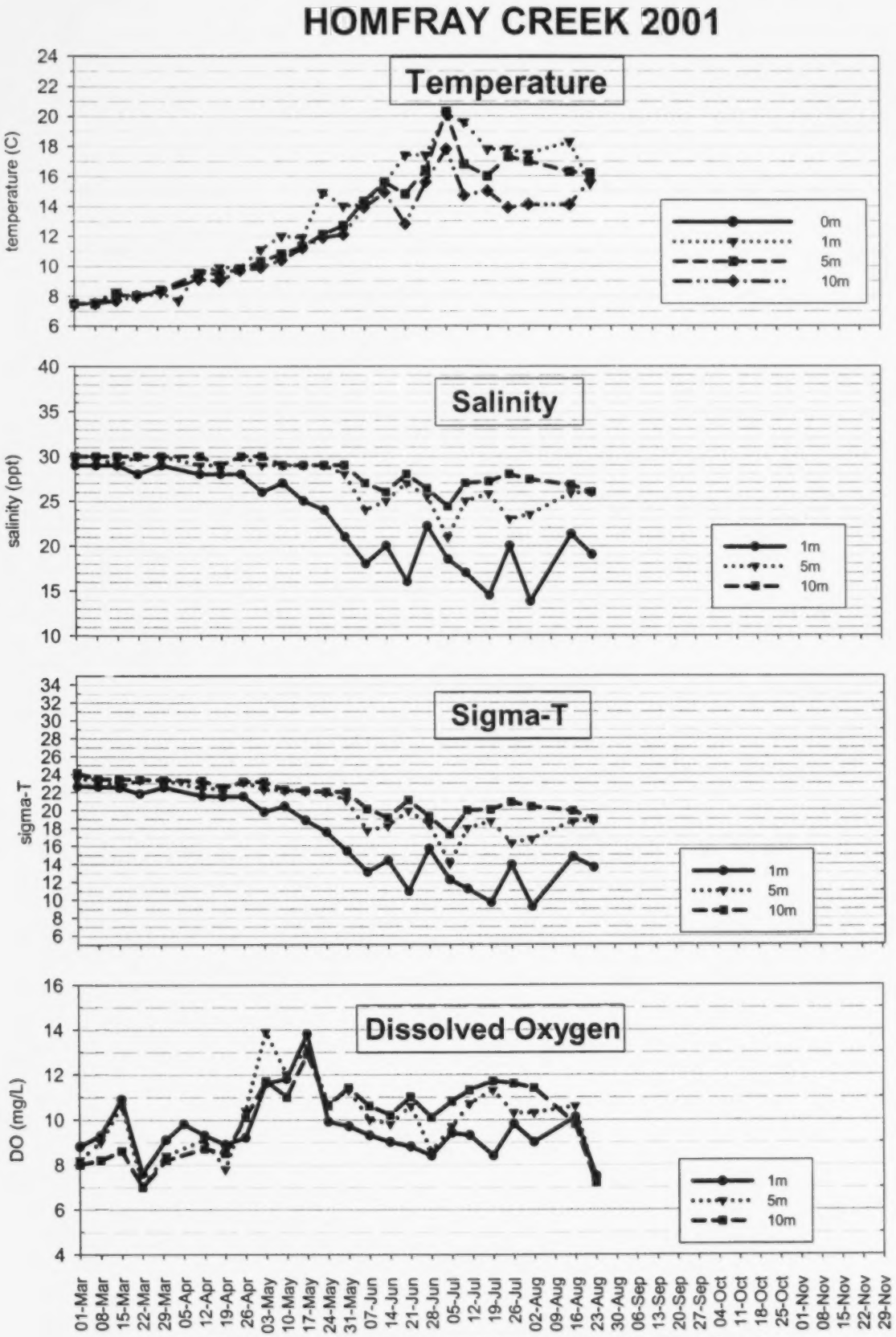

Figure 60: Environmental monitoring data for Homfray Creek.

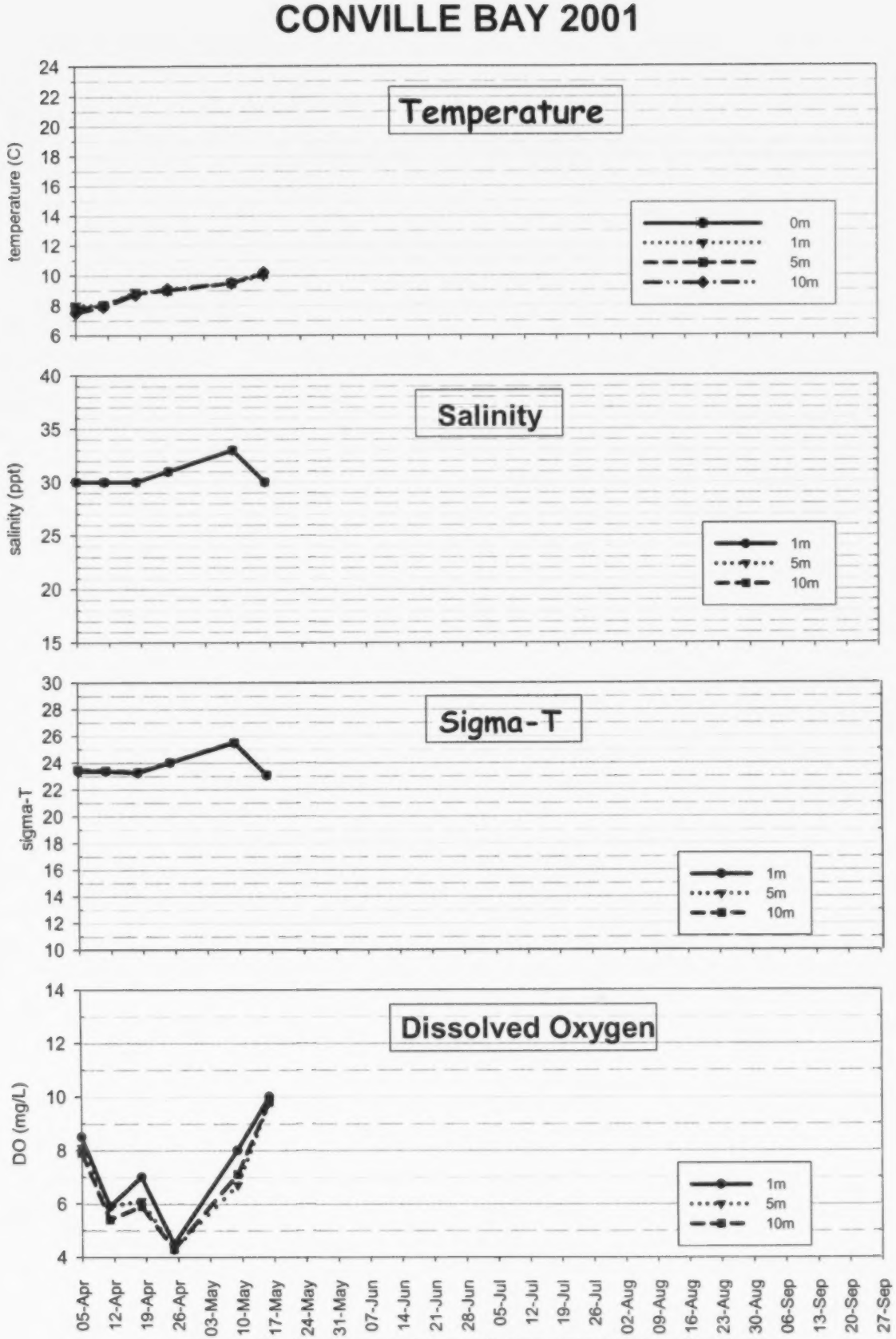

Figure 61: Environmental monitoring data for Conville Bay.

GLACIAL CREEK 2001

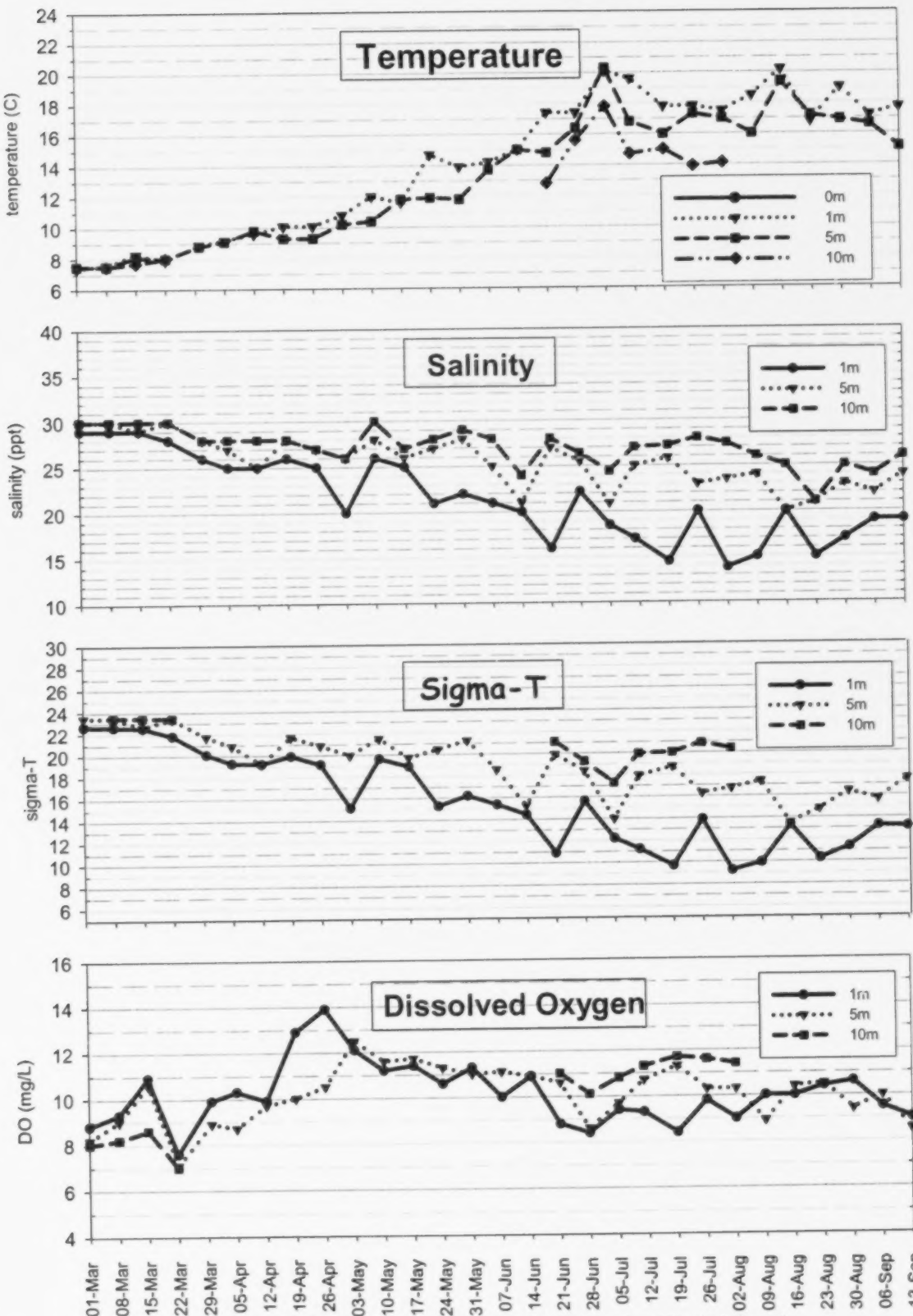

Figure 62: Environmental monitoring data for Glacial Creek.

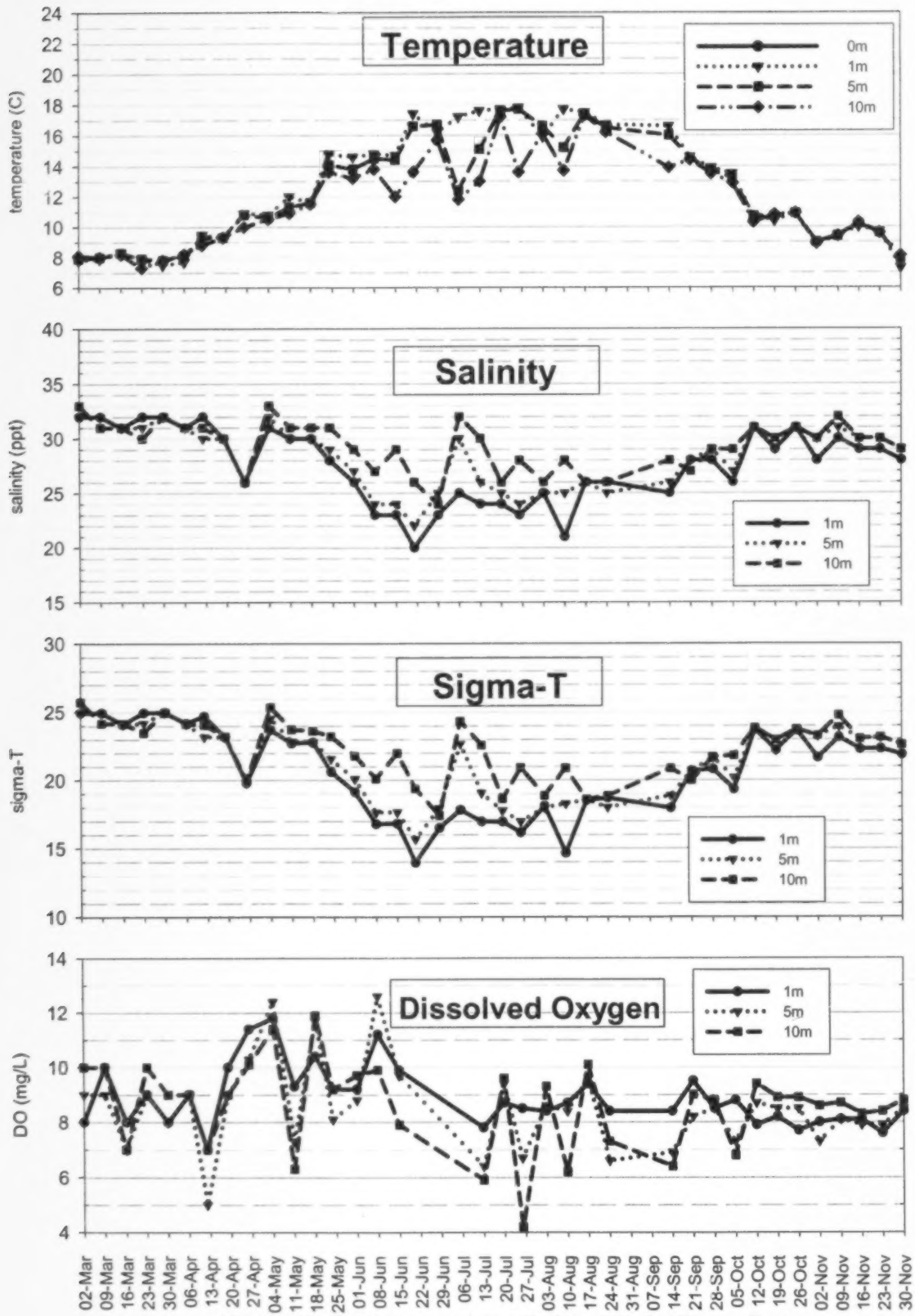

Figure 63: Environmental monitoring data for Power Bay.

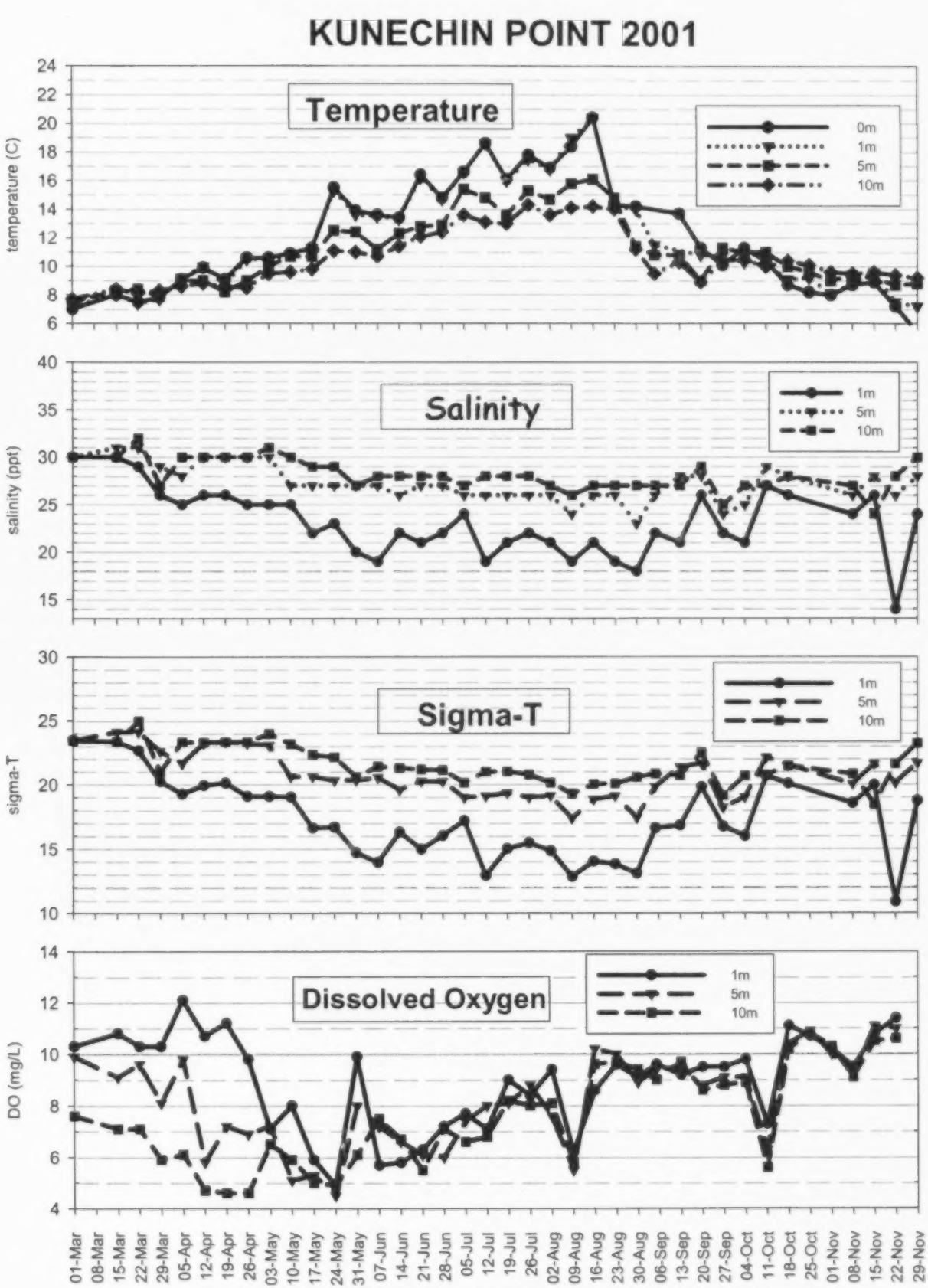

Figure 64: Environmental monitoring data for Kunechin Point.

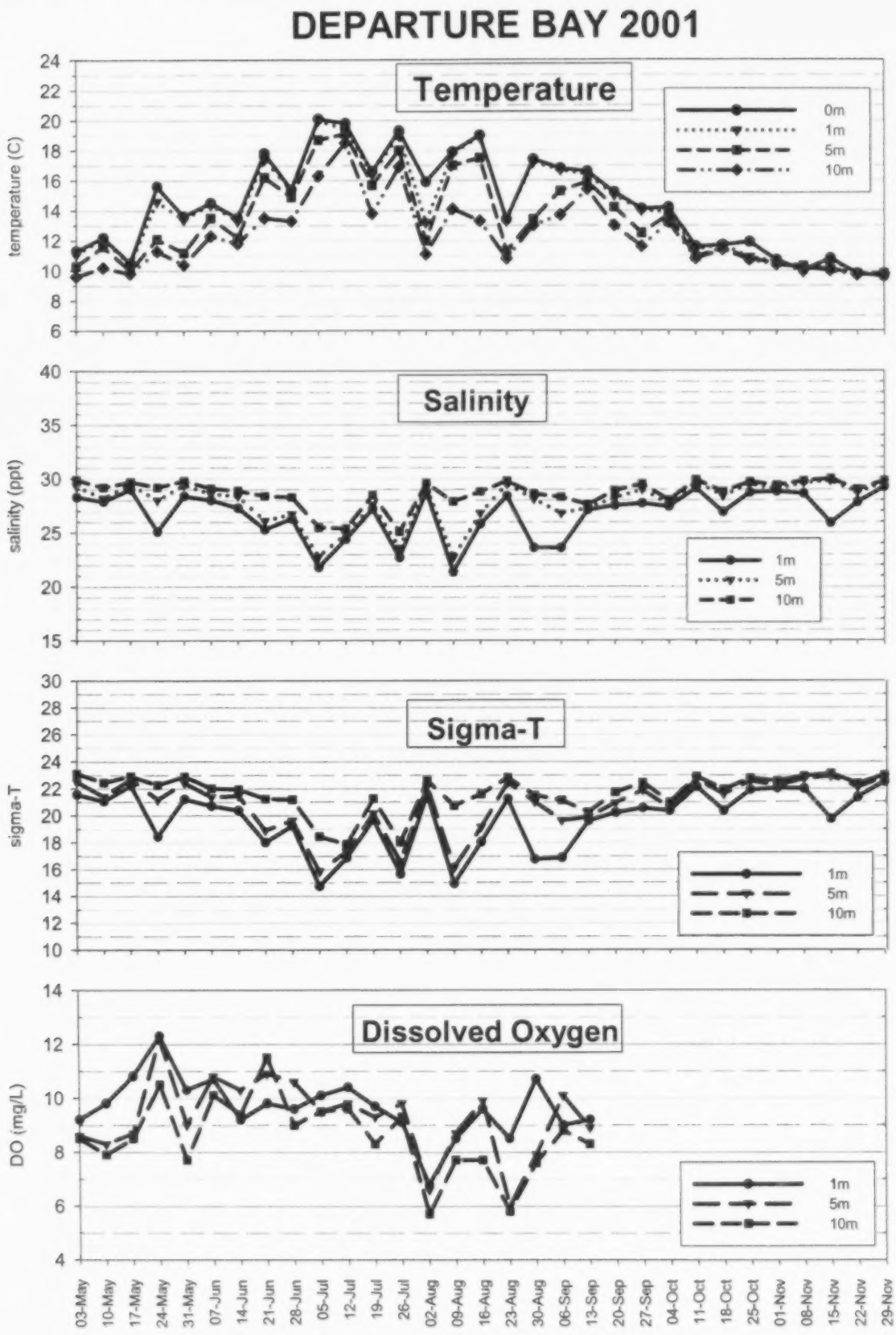

Figure 65: Environmental monitoring data for Departure Bay.

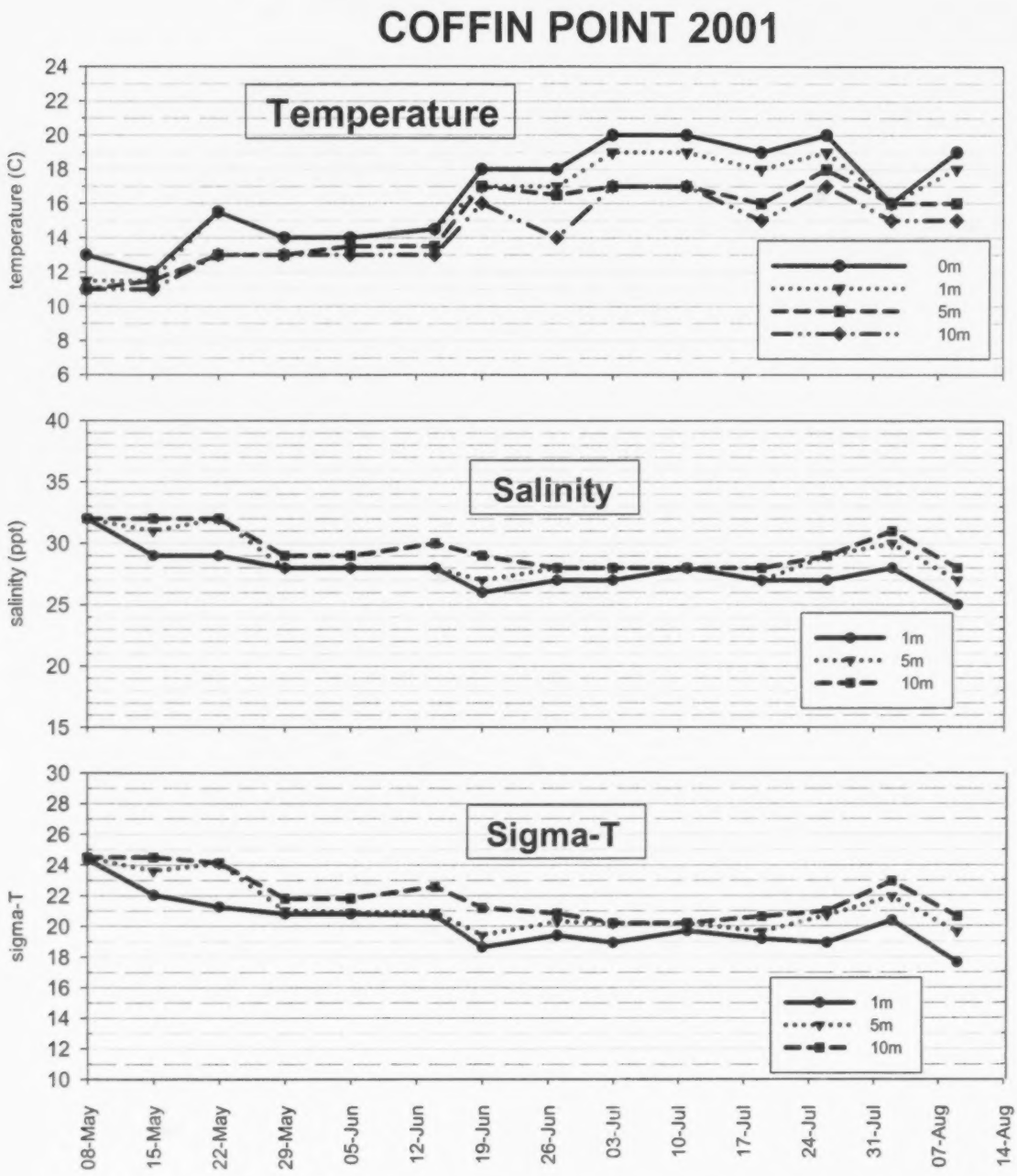

Figure 66: Environmental monitoring data for Coffin Point.

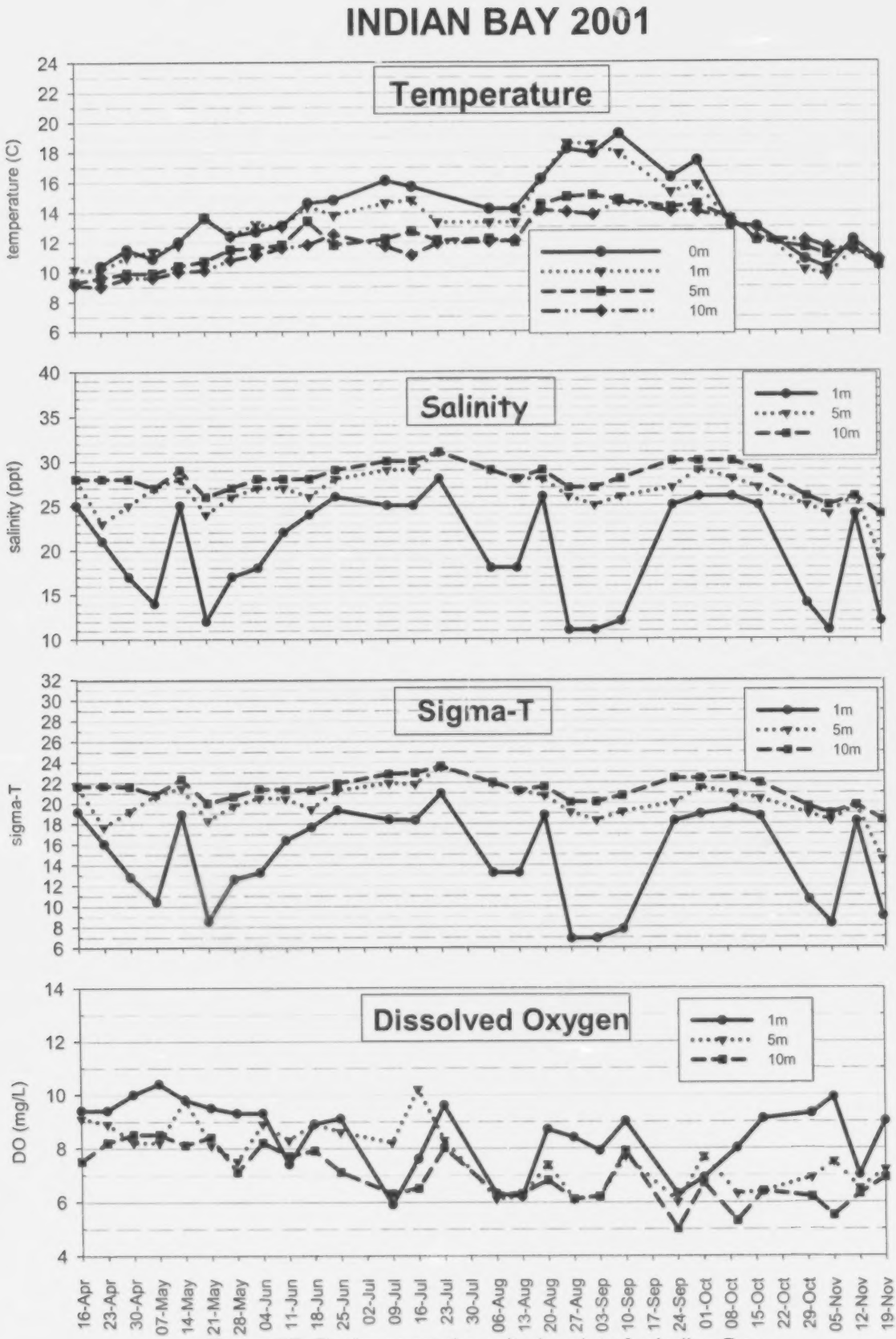

Figure 67: Environmental monitoring data for Indian Bay.

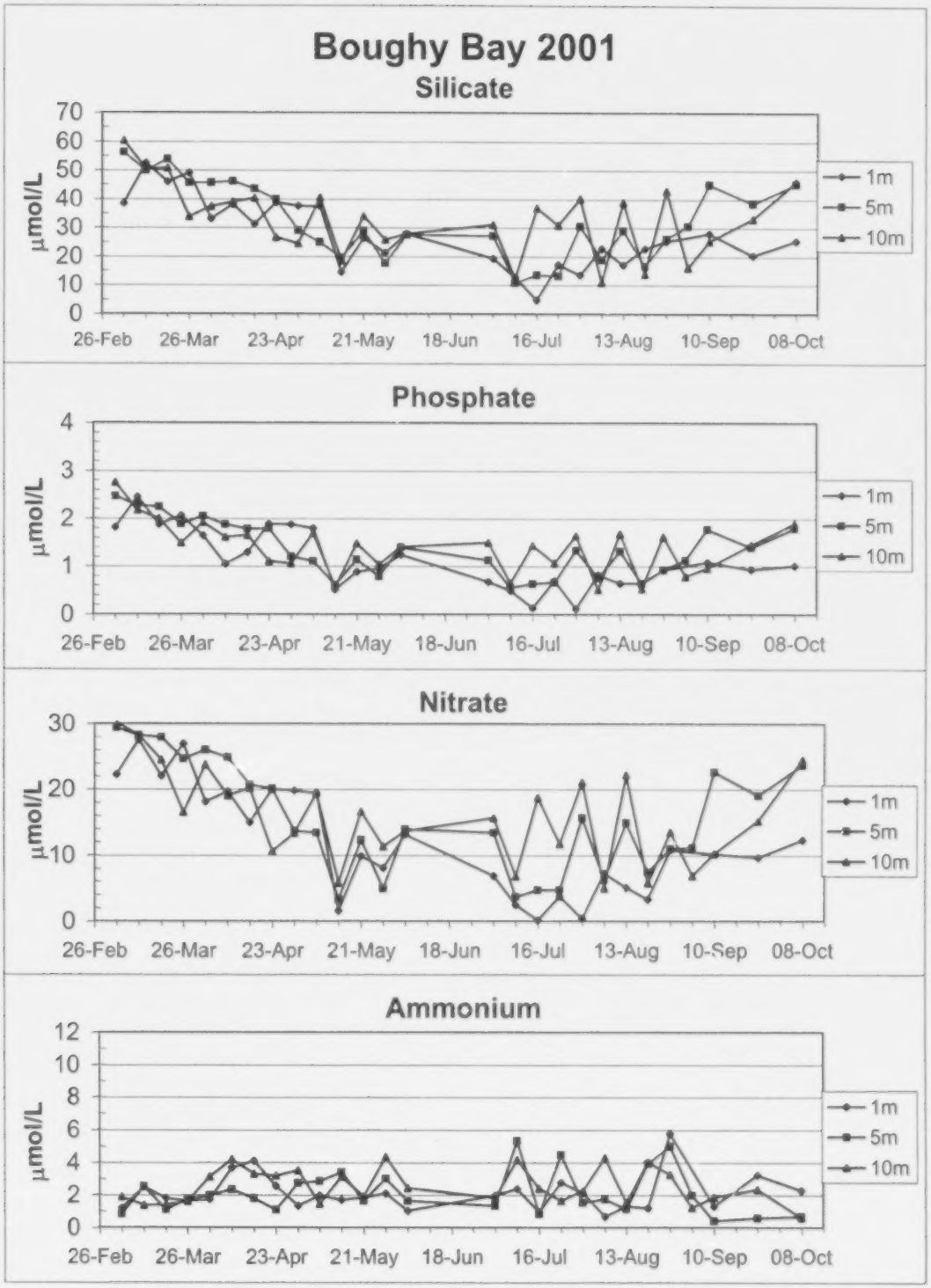

Figure 68: Nutrient concentrations in Boughy Bay samples.

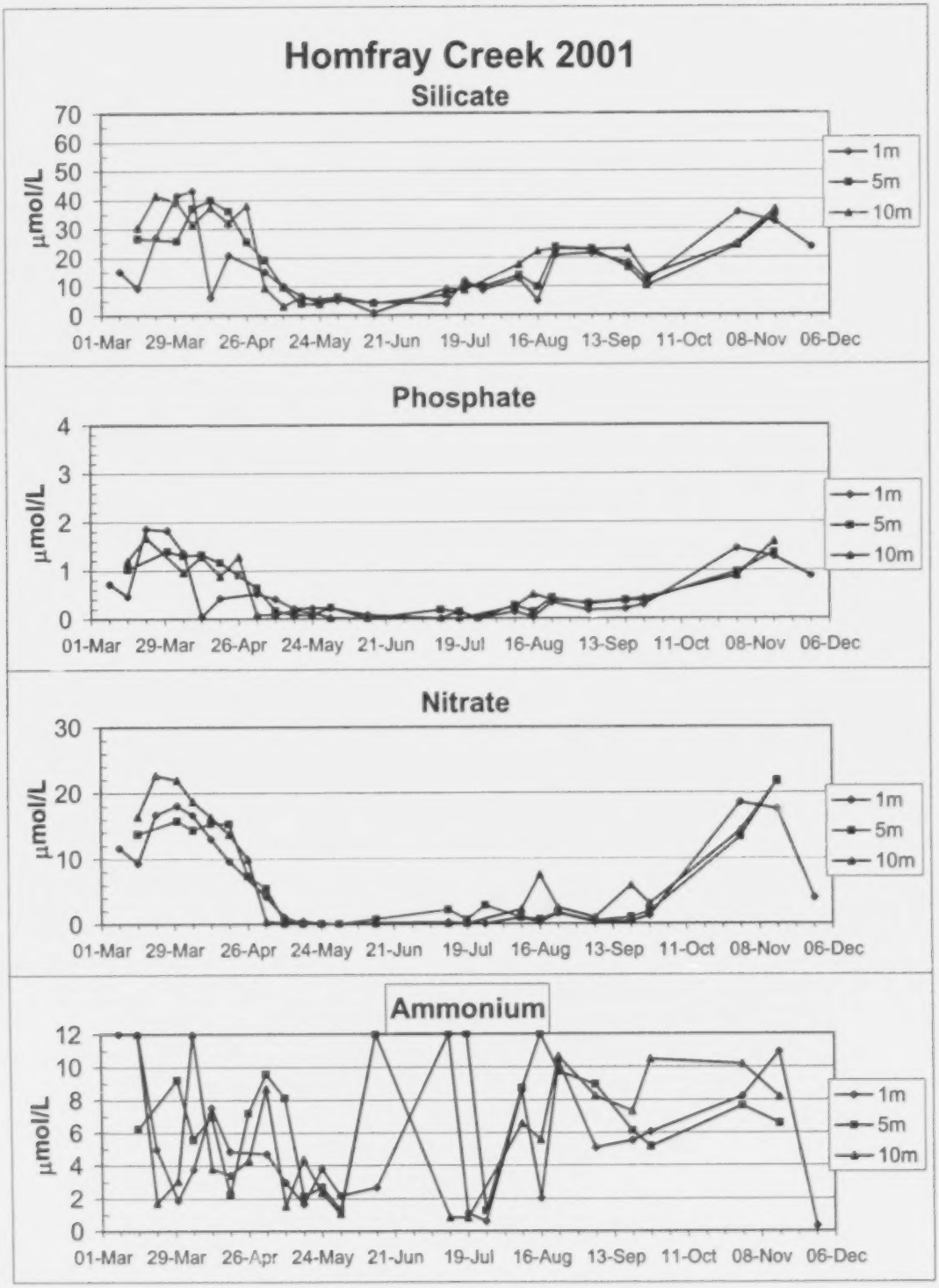

Figure 69: Nutrient concentrations in Homfray Creek samples.

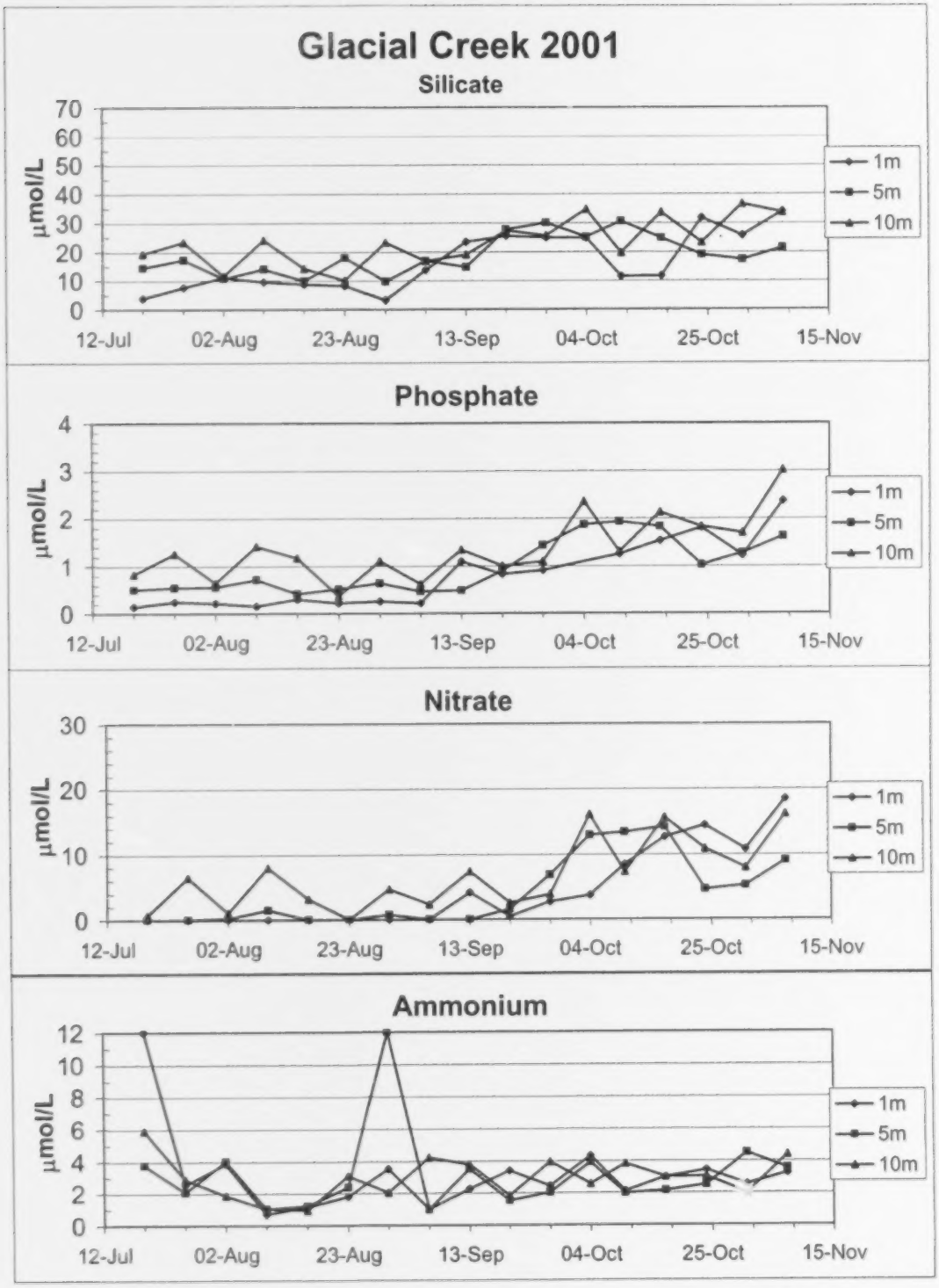

Figure 70: Nutrient concentrations in Glacial Creek samples.

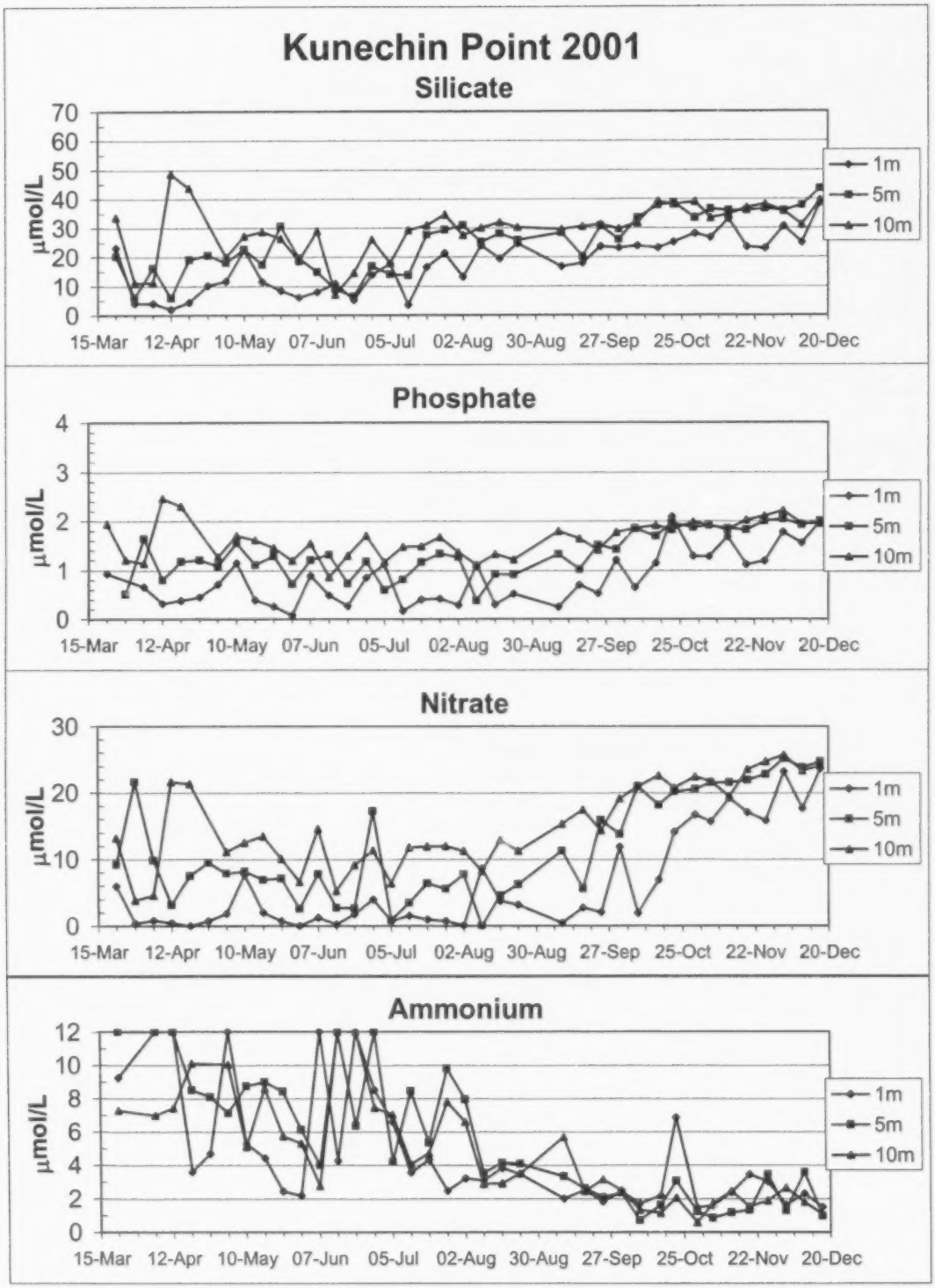

Figure 71: Nutrient concentrations in Kunechin Point samples.

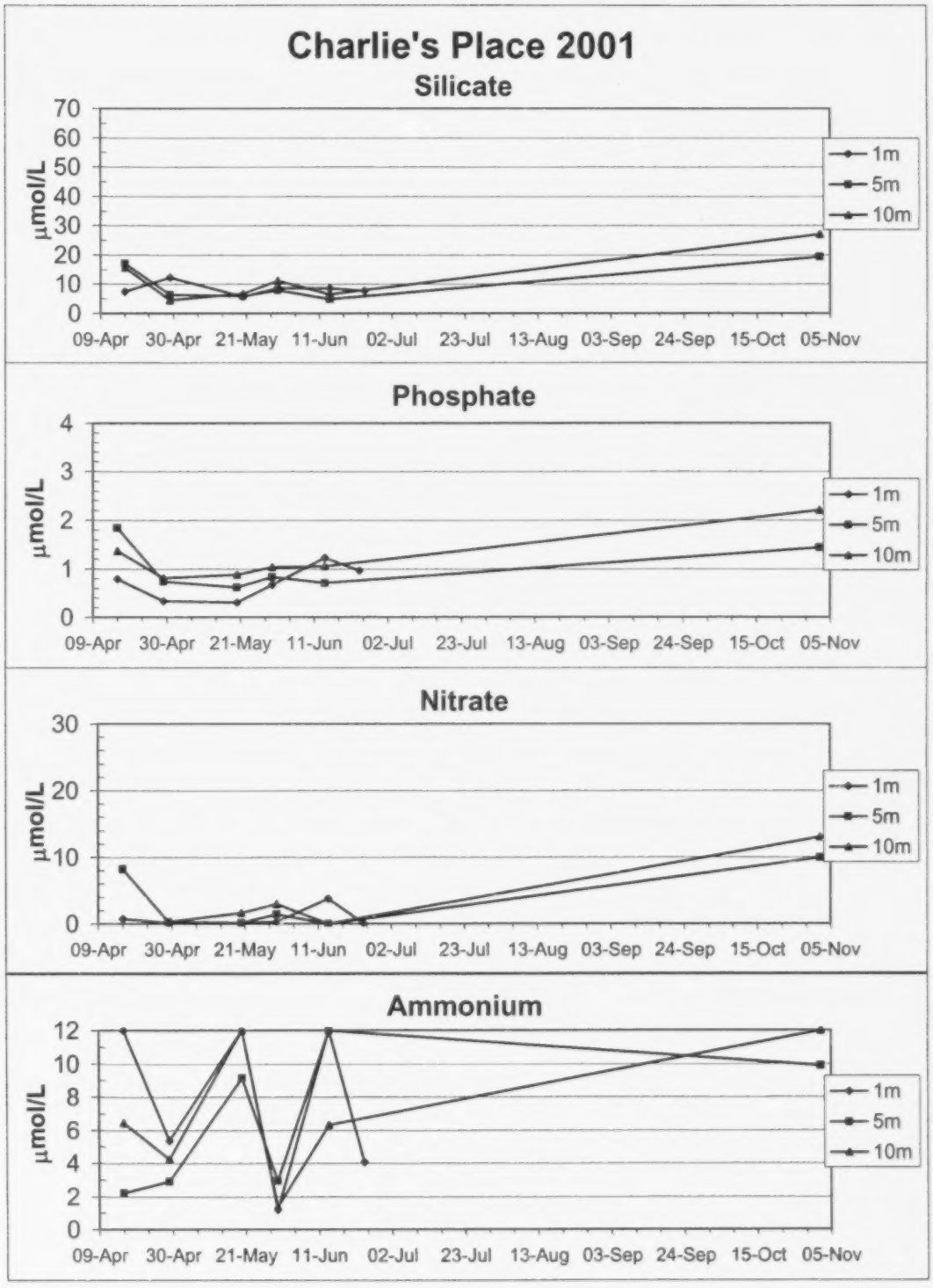

Figure 72: Nutrient concentrations in Charlie's Place samples.

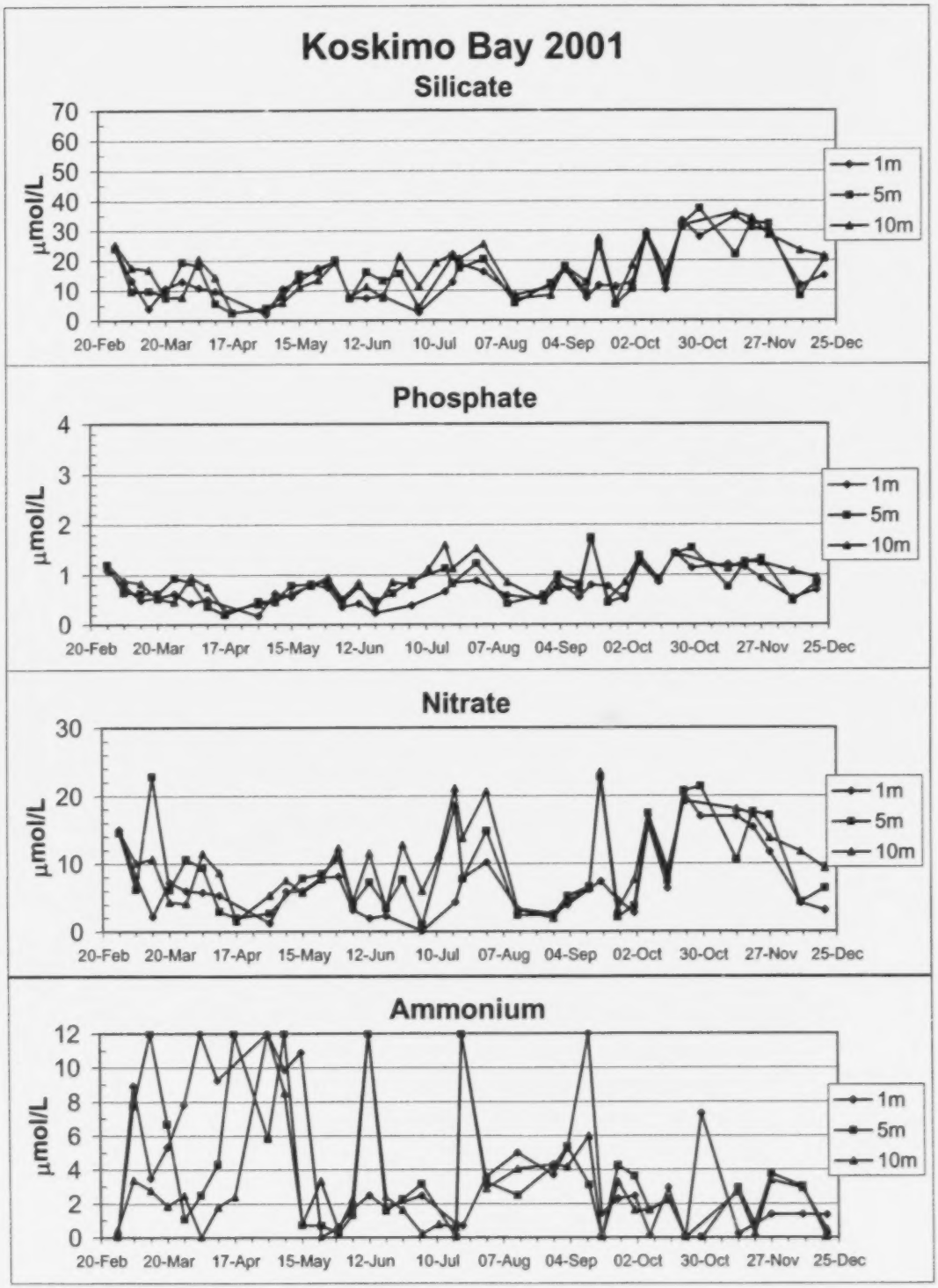

Figure 73: Nutrient concentrations in Koskimo Bay samples.